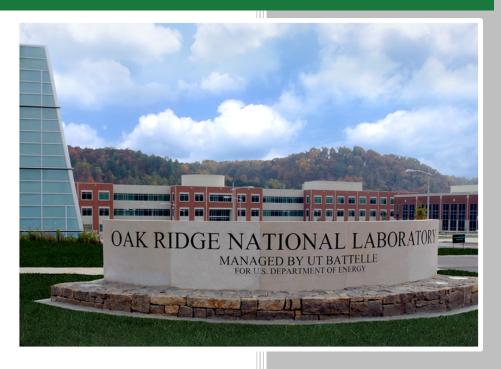
Confirmatory LBL Analysis of AGR-5/6/7 Compacts and Over-Coated Particles



John D. Hunn Fred C. Montgomery John A. Dyer Tamara J. Keever Grant W. Helmreich

April 2018

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Fusion and Materials for Nuclear Systems Division

CONFIRMATORY LBL ANALYSIS OF AGR-5/6/7 COMPACTS AND OVER-COATED PARTICLES

BWXT BATCHES 11034, 14154C, 14156C, AND 14156D

John D. Hunn Fred C. Montgomery John A. Dyer Tamara J. Keever Grant W. Helmreich

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ACRONYMS

AGR Advanced Gas Reactor (Fuel Development and Qualification Program)

AGR-5/6/7 Fifth/sixth/seventh AGR program irradiation experiments

ATR Advanced Test Reactor

BWXT BWX Technologies (Nuclear Operations Group in Lynchburg, Virginia)

CVD Chemical vapor deposition DAM Data Acquisition Method

DRF Data Report Form

DUF Dispersed Uranium Fraction EKF Exposed Kernel Fraction INL Idaho National Laboratory

IPyC Inner pyrolytic carbon (TRISO layer)

IRF Inspection Report Form

LBL Leach-burn-leach

MDL Minimum detection limit

OPyC Outer pyrolytic carbon (TRISO layer)
ORNL Oak Ridge National Laboratory

PF Packing Fraction (TRISO volume fraction in a compact)

PyC Pyrolytic carbon
QC Quality control
SDF SiC Defect Fraction

SiC Silicon carbide (TRISO layer)

TRISO Tristructural-isotropic (coated particles)

UCO Uranium carbide/uranium oxide mixture (fuel kernels)

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1. INTRODUCTION

Fuel for the Advanced Gas Reactor Fuel Development and Qualification (AGR) Program's AGR-5/6/7 irradiation test in the Idaho National Laboratory (INL) Advanced Test Reactor (ATR) was produced by BWX Technologies (BWXT) Nuclear Operations Group in Lynchburg, Virginia. Tristructural isotropic (TRISO) coatings were deposited using a 150-mm-diameter production-scale fluidized-bed chemical vapor deposition (CVD) furnace on 425-μm-nominal-diameter spherical kernels from Lot J52R-16-69317 containing a mixture of 15.5% ²³⁵U low-enriched uranium carbide and uranium oxide (UCO). The TRISO coatings consisted of four consecutive CVD layers: a ~50% dense carbon buffer layer with 100-μm-nominal thickness, a dense inner pyrolytic carbon (IPyC) layer with 40-μm-nominal thickness, a silicon carbide (SiC) layer with 35-μm-nominal thickness, and a dense outer pyrolytic carbon (OPyC) layer with 40-μm-nominal thickness. TRISO-coated particle Lot J52R-16-98005 was over-coated with a graphite/resin blend and these over-coated particles were pressed in half-inch-diameter, one-inch-long cylindrical compacts. Two packing fractions (PF) were produced, 40%PF and 25%PF, where the TRISO particle volume made up approximately 40% and 25% of the total compact volume, respectively.

The AGR-5/6/7 Fuel Specification, SPC-1352 [Marshall 2016], provides the requirements necessary for acceptance of the fuel manufactured for the AGR-5/6/7 irradiation test. Quality control (QC) acceptance testing for all AGR-5/6/7 composited lots and single batches was performed by BWXT, with the exception of pyrolytic carbon (PyC) anisotropy and defective IPyC fraction in the TRISO candidate batches and final composite, which were measured at the Oak Ridge National Laboratory (ORNL) and reported in ORNL/TM-2017/036 [Hunn et al. 2017] and ORNL/TM-2017/037 [Helmreich et al. 2017a].

Confirmatory leach-burn-leach (LBL) analysis was performed at ORNL to provide additional data for evaluating the compact properties measured by LBL analysis at BWXT. Samples from compact Batches J52R-16-14154C (40%PF), J52R-16-14156C (25%PF), and J52R-16-14156D (25%PF) were shipped from BWXT to ORNL for deconsolidation and LBL analysis to help evaluate and confirm previous BWXT measurement of three important TRISO particle defect fractions in the final compacted form: the exposed kernel fraction (EKF), the SiC defect fraction (SDF), and the dispersed uranium fraction (DUF). Select impurities (Fe, Cr, Mn, Co, Ni, Ca, Al, Ti, and V) were also measured on some sub-samples. In addition, a sample from over-coated particle Batch J52R-16-11034 (used for the 40%PF compacts) was shipped to ORNL to perform LBL analysis of the defect fractions in the compact feedstock at that stage for comparison to the defect fractions measured in the TRISO particle lot before over-coating and in the 40%PF compact batches. The definitions of EKF, SDF, and DUF are further explained in Section 2, and the method for their calculation according to the AGR-5/6/7 Fuel Specification is summarized.

2. ANALYSIS METHOD

Deconsolidation and LBL analysis was performed on BWXT compact Batches J52R-16-14154C (40%PF), J52R-16-14156C (25%PF), and J52R-16-14156D (25%PF) according to data acquisition method (DAM) AGR-CHAR-DAM-26 [Hunn and Montgomery 2018a]. This DAM provides the instructions for performing deconsolidation and LBL analysis of cylindrical compacts containing coated particles. The LBL method attempts to thoroughly leach uranium (and other metallic impurities) not contained within gas and liquid-tight SiC layers. The AGR-5/6/7 Fuel Specification [Marshall 2016] has specified limits for the amount of selected metallic impurities (Fe, Cr, Mn, Co, Ni, Ca, Al, Ti, and V) in a compact outside intact SiC layers. The specification also includes a series of calculations that use the amount of uranium leached before and after burning off exposed carbon to calculate EKF, SDF, and DUF, as described below, and specifies limits on these fractions.

Following DAM-26, compacts were electrolytically deconsolidated to separate the coated particles from the surrounding matrix of graphite and carbonized resin. This process involves submerging the tip of a compact in nitric acid and applying a voltage between the compact (the anode) and a platinum cathode in contact with the acid. During electrolytic deconsolidation, intercalation of nitrate anions and nitric acid between the basal planes of the graphite material in the compact matrix dissociates the graphite structure, breaks up the matrix, and releases the coated particles. Compacts were analyzed in randomly-selected "clutches" of five compacts each. All compacts in a given clutch were sequentially deconsolidated into the same vessel by stacking them in a cylindrical-shaped deconsolidation tube with an open mesh bottom and a diameter slightly larger than the compacts. The deconsolidation tube was lowered into a vessel containing nitric acid to wet the tip of the bottom compact and a weighted rod with the anode wire placed on the top compact. As the lowest compact in the stack was deconsolidated, the compacts were gravity-fed downward such that the bottom of the lowest compact remained in contact with the acid until all compacts were deconsolidated.

Deconsolidated particles and matrix debris were subjected to two 24-hour pre-burn leaches in boiling concentrated nitric acid. The deconsolidation acid was used for the first pre-burn leach because some exposed uranium and metallic impurities are dissolved in the room temperature acid during the deconsolidation phase. This first pre-burn leach acid was separated from the particles and matrix debris and fresh acid was used for the second leach. Aliquots from the leach solutions were analyzed by mass spectrometry to determine the concentration of U and selected impurities dissolved in the acid. Measured concentrations were converted to mass quantities by multiplying by the collected volume of each leach solution. The equivalent number of leached kernels (kernel-equivalent) was determined by dividing the total mass of uranium dissolved during the pre-burn leach by the average uranium content of one kernel.

Sample clutches are typically leached at least twice; and if the uranium detected in the second leach is above the minimum detection limit and more than 10–20% of the amount detected in the first leach, then this is an indicator that uranium leaching may have been incomplete and additional leaching is needed for better confidence in the results. Best practice is to postpone the burn phase until the uranium analysis of the first two pre-burn leaches is completed; this allows for the option of additional leaching in the preburn state if the second leach value indicates incomplete leaching of exposed uranium. However, because of schedule restraints for the current analysis, samples were subjected to burn-leach before pre-burn leach results were available.

After two 24-hour pre-burn leaches, each sample was heated at 750°C in air for 72 hours to oxidize and remove any exposed carbonaceous material, which would include the compact matrix carbon, the OPyC, and any IPyC and buffer coatings that were exposed to air due to a through-layer defect in the SiC layer. Uranium and metallic impurities exposed by the burn or not completely dissolved during the pre-burn

leach phase will also be oxidized during the burn phase, which makes them more soluble in hot nitric acid during the post-burn leach phase.

Similar to the pre-burn leach phase, the "burned-back" particles and any residual ash were subjected to two 24-hour leaches in hot nitric acid to dissolve any exposed uranium and/or impurities. These post-burn leaches were done just below the 120°C boiling point of the ~70% concentrated nitric to minimize the chance of the solutions bumping, which can violently eject particles from the heating flask. Aliquots from the leach solutions were analyzed the same as the pre-burn leach solutions.

The AGR-5/6/7 fuel specification [Marshall 2016] provides a method for determining the EKF, SDF, and DUF based on the following definitions and assumptions. A particle is considered to have an exposed-kernel defect if the coating layers cannot prevent nitric acid from penetrating to the kernel during the preburn leach phase. Such a particle would be likely to perform poorly in a reactor and release an undesirable fraction of the radioactive material it was designed to retain. A particle is considered to have a SiC defect if uranium in the kernel is retained during pre-burn leaching but can be acid leached after removal of the exposed carbon coating layers by heating in air during the burn step described above. Obviously, particles with exposed-kernel defects also have through-layer defects in the SiC, but these particles are not counted again as SiC-defect particles because counting them as exposed-kernel defects already fully accounts for their impact on particle performance, as particles with exposed-kernel defects are presumed to release more fission products than those with SiC defects.

It is assumed that uranium in a particle with an exposed-kernel defect or SiC defect will be almost completely leached during the pre-burn leach or post-burn leach phase, respectively, yielding close to the average uranium content of one kernel. If the total amount of uranium detected in either the pre-burn leaching or post-burn leaching of a clutch is below 0.5 kernel-equivalents, the fuel specification states that this uranium will be identified as dispersed uranium contamination not associated with an individual particle with an exposed-kernel defect or SiC defect. The dispersed uranium fraction is this dispersed uranium contamination divided by the amount of uranium in the clutch, which is approximately equivalent to the kernel-equivalent amount of dispersed uranium divided by the average number of particles in a clutch.

Based on the methods prescribed in the AGR-5/6/7 fuel specification, a pre-burn leach dispersed uranium fraction (DUF_{Pre}) was determined for each clutch whose cumulative leached uranium during the pre-burn leaching was <0.5 kernel-equivalents. Similarly, a post-burn leach dispersed uranium fraction (DUF_{Post}) was determined for each clutch whose cumulative leached uranium during the post-burn leaching was <0.5 kernel-equivalents. Means and standard deviations for the DUF_{Pre} and DUF_{Post} measurements from each sample were calculated using all clutches from the sample for which a DUF value was determined. As prescribed in the AGR-5/6/7 fuel specification, the measured mean DUF_{Total} for each sample was calculated as the sum of the mean DUF_{Pre} and DUF_{Post}. This implies an assumption that the DUF_{Pre} and DUF_{Post} values are measurements of variable properties of the batch and these properties are independent.

Student's t-test statistics were applied to the mean (μ) and standard distribution (σ) of the DUF_{Pre} and DUF_{Post} measurements using the t-test equation and methods described in the AGR-5/6/7 statistical sampling plan [Lybeck and Einerson 2016] to calculate the 95% confidence limits on the maximum mean values of DUF_{Pre} and DUF_{Post} in the sampled batch. Namely, the 95% confidence limit on the maximum mean value in the batch was calculated to be

$$\leq \mu + t_{c,n-1} \left(\sigma / \sqrt{n} \right), \tag{1}$$

where n was the number of determined DUF values and $t_{c,n-1}$ was the one-sided Student's t-distribution critical value for n-1 degrees of freedom and a cumulative probability or confidence (c) of 95%.

The calculation of the 95% confidence limit on the maximum mean value of DUF_{Total} in the sampled batch could not be directly calculated using the simple Student's t-test equation provided in the sampling plan because DUF_{Total} was not based on individual measurements of DUF_{Total} in each clutch but was rather based on the combination of independent measurements of DUF_{Pre} and DUF_{Post}. To calculate the limit value for DUF_{Total}, approximations of the cumulative probability distributions for DUF_{Pre} and DUF_{Post} were constructed using stepwise evaluations of the Student's t-distribution and combined as described below.

In an Excel spreadsheet, a column of discrete maximum mean values of DUF_{Pre} for a range of cumulative probabilities from 0 to 100%, exclusive, was generated using the t-test equation

$$max_i(DUF_{Pre}) = \mu + t_{c_i,n-1}(\sigma/\sqrt{n})$$
 for $i = 1$ to $(100/\Delta) - 1$ and $c_i = i \times \Delta$, (2)

where μ , σ , and n were based on the DUF_{Pre} measurements (the same used for the 95% confidence calculation in Equation 1), $t_{c_i,n-1}$ was the one-sided Student's t-distribution critical value for n-1 degrees of freedom and a cumulative probability c_i , and Δ was a constant stepsize. Thus, the series of max_i values defined in Equation 2 made up a stepwise approximation of the Student's t cumulative probability distribution for the maximum mean value of DUF_{Pre} in the sampled batch. Each max_i value was a slight overestimate of the possible true mean value of the batch with a probability equal to the stepsize Δ , being the maximum value over the cumulative probability interval $(c_i$ - Δ , c_i].

Similarly, an approximation of the cumulative probability distribution for the maximum mean value of DUF_{Post} in the sampled batch was generated for the same stepsize Δ ; and these values were arranged in a row in the Excel spreadsheet so that a matrix could be easily generated by summing all possible pairs of values from the two cumulative probability distributions,

$$sum_{ij} = max_i(DUF_{Pre}) + max_i(DUF_{Post})$$
 for i and $j = 1$ to $(100/\Delta) - 1$. (3)

The probability associated with each individual sum_{ij} combination was the product of the probabilities for the corresponding max_i and max_j , which was Δ^2 in every case. To approximate the 95% confidence limit on the maximum mean value of DUF_{Total}, the individual sum_{ij} values had to be combined as follows.

Starting with the measured mean, $\mu(DUF_{Total})$, for each sample (i.e., the sum of the measured means for DUF_{Pre} and DUF_{Post}), a series of discrete possible maximum mean values of DUF_{Total} was generated over a sufficient range,

$$max_k(DUF_{Total}) = \mu(DUF_{Total}) + k \times \partial \text{ for } k = 1 \text{ to } N,$$
 (4)

where ∂ was a constant stepsize and N was adjusted to ensure enough values were generated in the series to reach a max_k value that corresponded to a 95% cumulative probability. The approximate cumulative probability (c_k) for each possible maximum mean value, $max_k(DUF_{Total})$, was determined by searching the matrix of individual sum_{ij} values and counting the number of sum_{ij} values that were less than or equal to the candidate max_k value,

$$c_k = \Delta^2 \times \text{CountIf}\left(sum_{ij} \le max_k(\text{DUF}_{\text{Total}})\right) \text{ for } k = 1 \text{ to } N.$$
 (5)

The max_k value that corresponded to the c_k value closest to and also greater than or equal to 95% was taken as the best approximation of the 95% confidence limit on the maximum mean value of DUF_{Total} in the sampled batch. The approximation is conservative, as it was calculated to be a slight over-estimate by using the upper bounds in the stepwise approximations of the Student's t cumulative probability

distribution for the maximum mean values of DUF_{Pre} and DUF_{Post}, and it was required to have a confidence of at least 95%. The accuracy of the approximation was dependent on the stepsize Δ used in the stepwise approximations of the Student's t cumulative probability distribution for the maximum mean values of DUF_{Pre} and DUF_{Post}. The stepsize Δ was varied to examine the accuracy of the approximation. As stepsize Δ was reduced, the approximation of the 95% confidence limit on the maximum mean value of DUF_{Total} asymptotically-approached a minimum value from above. The stepsize was small enough to no longer change the value to three significant figures when the stepwise approximations of the Student's t cumulative probability distribution for the maximum mean values of DUF_{Pre} and DUF_{Post} did not change by more than ~0.1% per step. A step size around 0.1% was typically sufficient. The accuracy of the approximation was also dependent on the stepsize ∂ used to generate the search list of discrete possible maximum mean values of DUF_{Total}. The stepsize ∂ was also varied to ensure an accurate approximation was calculated. For ∂ , it was important that the candidate max_k values in the search series with corresponding c_k value immediately above and below 95% did not vary when rounded up to three significant figures.

In the definition of the EKF and SDF, according to the AGR-5/6/7 fuel specification, it is assumed that the equivalent number of leached kernels is dominated by individual defective particles in which the uranium in the kernel is exposed because of abnormal or damaged coatings (when they are present). Therefore, these defects are treated as attribute properties and defect fractions are determined from the equivalent number of defective particles versus the number of particles in the measured sample. Binomial distribution statistics are applied to predict the upper limit for the defect fraction at 95% confidence.

Equations for determining EKF and SDF are provided in the AGR-5/6/7 fuel specification [Marshall 2016]. The equivalent number of leached kernels detected during pre-burn leaching of a clutch of compacts is corrected by subtracting the kernel-equivalent contribution from the dispersed uranium (assumed to be the mean DUF_{Pre} times the average number of particles per clutch). This corrected kernel-equivalent value is then rounded to the nearest integer to arrive at the pre-burn exposed kernel count for that clutch. The pre-burn exposed kernel count for all analyzed clutches is summed and divided by the estimated number of analyzed particles (calculated from the average number of particles per clutch times the number of clutches) to get the measured EKF. The 95% confidence limit on the EKF comes from a binomial distribution calculation using the total pre-burn exposed kernel count and estimated number of analyzed particles. The SDF values are calculated in the same way except the equivalent number of leached kernels detected during post-burn leaching of a clutch is corrected with the mean DUF_{Post} value.

Analysis of selected metallic impurities (Fe, Cr, Mn, Co, Ni, Ca, Al, Ti, and V) included subtraction of the impurities measured in a control blank. The control blank is a sample containing no compacts and is processed in the same way and at the same time as the associated compact clutches in the analysis group. One control blank is typically run with each analysis group of up to four clutches but can be associated with more clutches if they are run together. The weight of impurity detected in each individual leach can be adjusted by subtracting the weight of impurity detected in the corresponding leach of the control blank.

Each DAM-26 data report form (DRF) includes two corrected values for each measured impurity weight. The minimum corrected impurity weight is calculated as the measured impurity weight in each sample solution minus the impurity weight in the corresponding control blank solution. If the corresponding impurity weight in the blank was reported as being below a minimum detection limit (MDL), indicated in the DRF as a <-value, then the MDL is used in the calculation. The minimum corrected impurity weight is reported as zero if the measured sample solution impurity weight was reported as an MDL value or the calculation of the minimum corrected impurity weight yielded a negative result. The maximum corrected impurity weight is also calculated as the measured impurity weight in each sample solution minus the impurity weight in the corresponding control blank solution. However, if the corresponding impurity weight in the blank was reported as an MDL, then it is assumed to be zero and nothing is subtracted.

Additionally, if the measured sample solution impurity weight was reported as an MDL, then it is assumed to be equal to the MDL for the calculation. The maximum corrected impurity weight is reported as zero if the calculated maximum corrected impurity weight is negative. The minimum and maximum corrected values represent the possible range on the impurity weight given the uncertainty introduced by values below the MDL. The maximum corrected impurity weight is appropriate for comparison to the fuel specification as it is the highest possible value in this control blank-corrected range.

LBL analysis was performed on BWXT over-coated particle Batch J52R-16-11034 according to AGR-CHAR-DAM-21 [Hunn and Montgomery 2018b]. This procedure is essentially the same as DAM-26 except that the compact deconsolidation is not required prior to the pre-burn acid leaching. The EKF, SDF, and DUF were calculated as they were for the compacts.

3. COMPACTS WITH 25% PACKING FRACTION

Confirmatory LBL analysis was completed on 25%PF compacts from two different BWXT furnace tray batches, 29 compacts from Batch J52R-16-14156C and 11 compacts from Batch J52R-16-14156D. These 40 compacts were mixed together and randomly sampled in clutches of 5 compacts each. The eight clutches were split into two groups of four clutches and each group was processed together with a blank sample. All leach solutions were analyzed for uranium contents and Group 1 leachates were also analyzed for other impurities (Fe, Cr, Mn, Co, Ni, Ca, Al, Ti, and V). Appendix A contains the official pre-burn leach and post-burn leach data report form (DRF) for each analyzed clutch of five compacts and inspection report forms (IRFs) that summarize the data. This data is further presented and discussed in the remainder of this section.

3.1 LBL ANALYSIS FOR EXPOSED URANIUM IN 25%PF COMPACTS

Table 3-1 shows uranium (in kernel-equivalents) in each solution collected during pre-burn leaching of the eight 25%PF compact clutches from Batches J52R-16-14156C and J52R-16-14156D. Also in the table are the individual pre-burn leach total U and DUF_{Pre} (if applicable) for each clutch. The water rinse data was only added to the total if it was >10% of the second leach and >1% of the average uranium per kernel, as noted in the table. Clutches displayed in bold had leached uranium \geq 0.5 kernel-equivalents and therefore were counted as containing exposed-kernel defects. Only clutches without exposed-kernel defects were eligible for DUF measurement. Table 3-2 shows similar data for the post-burn leach and Table 3-3 and Table 3-4 summarize the defect fraction results.

Clutch 2nd Leach Water Rinse 1st Leach Total Individual DUF_{Pre} 1 3.66E-2 6.77E-3 6.56E-4 0.04 3.79E-6 2 2.90E-2 6.01E-3 0.04 3.05E-6 6.18E-4 3 1.87E-1 2.87E-2 2.98E-3 0.22 1.88E-5 4 6.74E-2 8.13E-3 1.17E-3 0.08 6.59E-6 5 4.12E-2 4.75E-3 7.66E-4 0.05 4.00E-6 6 8.70E-1 6.29E-2 1.56E-2 0.95 7 2.81E-2 2.96E-3 4.53E-4 0.03 2.71E-6 3.15E-2 5.78E-3 8.55E-4 0.04 3.26E-6

Table 3-1. Uranium leached from 25%PF compacts before the burn

Uranium content in each leach is reported in kernel-equivalents; individual DUF_{Pre} is the pre-burn leach fraction of exposed uranium in each clutch with <0.5 exposed kernel-equivalents; and the water rinse was not added to the total if shaded gray.

Clutch 1st Leach 2nd Leach Water Rinse Total Individual DUFPost 1.25E-2 3.59E-4 2.04E-5 0.01 1.13E-6 1 2 2.12E-5 1.20E-6 1.35E-2 2.96E-4 0.01 3 1.29E-1 2.31E-4 1.79E-5 0.13 1.13E-5 4 1.25E-2 3.94E-4 7.68E-5 0.01 1.13E-6 5 1.17E+0 5.52E-3 5.42E-4 1.18 6 2.16E+0 5.85E-3 4.08E-4 2.16 7 1.45E-2 6.71E-4 1.01E-4 0.02 1.32E-6 8 1.09E-4 1.35E-2 2.59E-3 0.02 1.40E-6

Table 3-2. Uranium leached from 25%PF compacts after the burn

Uranium content in each leach is reported in kernel-equivalents; individual DUF_{Post} is the post-burn leach fraction of exposed uranium in each clutch with <0.5 exposed kernel-equivalents; and the water rinse was not added to the total if shaded gray.

Dispersed uranium values were fairly consistent in the pre-burn and post-burn clutches that did not contain a defective particle, with the exception of Clutch 3. Clutch 3 had elevated levels of uranium

detected in both the pre-burn and post-burn leach series and the individual leach values appear to be consistent with normal leaching progression for dispersed uranium in terms of fractional decreases in successive leaches and from pre-burn to post-burn. The uranium in Clutch 3 also had a significantly lower ²³⁵U to ²³⁸U ratio that indicated that the contamination was dominated by natural uranium. Because the contamination in Clutch 3 appears to be real and not an artifact of the LBL analysis, it should be included in the final DUF results. However, for comparative information, Table 3-3 also shows the combined DUF values with Clutch 3 excluded. The standard deviation in the DUF with the abnormal Clutch 3 excluded was reduced by an order of magnitude.

The DUF_{Total} measured in the ORNL analysis of the combined samples from the two 25%PF compact batches was above the specified limit of DUF_{Total} \leq 1E-5 at 95% confidence, while the DUF_{Total} calculated without inclusion of the Clutch 3 data was below the specified limit. Consideration of the DUF values with Clutch 3 excluded indicates that the cause of the compact batches failing to meet the specified criteria for DUF_{Total} may be associated with abnormal contamination in individual compacts. In addition, the fact that the DUF values for Clutch 3 are outside of the normal distribution of the other individual clutch DUF values suggests that the Students t-test may not be appropriate for the calculation of the 95% confidence limit, in this case. The reported values [Marshall 2017] for BWXT measurement of DUF_{Total} in the 25%PF compacts are 2.66E-5 (measured-sample mean) and \leq 2.95E-5 (95% confidence limit on mean). These values are higher than and appear to be inconsistent with the ORNL results. Further analysis of the individual leach results obtained by the BWXT analysis is needed to understand this apparent inconsistency.

		DUF Pre	DUF Post	DUF Total
	Mean	6.03E-6	2.91E-6	8.94E-6
All 40 compacts	Standard deviation	5.78E-6	4.10E-6	
_	95% Confidence limit	≤1.03E-5	≤6.29E-6	≤1.45E-5
	Mean	3.90E-6	1.24E-6	5.14E-6
Excluding Clutch 3	Standard deviation	1.40E-6	1.22E-7	
_	95% Confidence limit	<5.06E-6	<1.36F-6	<6.31E-6

Table 3-3. Dispersed uranium in 25%PF compacts

There appeared to be only one exposed kernel in the pre-burn leach material (located in Clutch 6). That equates to a measured fraction of 1.09E-5 and a 95% confidence limit of ≤5.18E-5 (Table 3-4). This is slightly above the specified limit of EKF ≤5E-5 at 95% confidence but the measured data indicate that analysis of additional compacts to reduce the statistical penalty in the binomial distribution calculation of the 95% confidence limit would result in a value below the specified limit. The reported values for BWXT measurement of EKF in the 25%PF compacts are 7.39E-6 (measured fraction) and ≤1.48E-5 (95% confidence limit) and the ORNL values are consistent with these results. The BWXT values are lower than the values measured in the ORNL analysis but the difference in the measured EKF is well within the expected statistical sampling variation and the ORNL measured fraction is less than the BWXT reported 95% confidence limit.

Table 3-4. Defect Fractions in 25%PF compacts

	EKF	SDF
Number defects	1	3
Number particles	91720	91720
Measured fraction	1.09E-5	3.27E-5
95% Confidence limit	≤5.18E-5	≤8.46E-5

The uranium levels in the post-burn leaches of Clutches 5 and 6 indicate a total of 3 particles with defective SiC coatings according to the specified data analysis method in the AGR-5/6/7 fuel

specification. That equates to a measured fraction of 3.27E-5 and a 95% confidence value of \leq 8.46E-5 (Table 3-4). This is less than the specified limit of SDF \leq 1E-4 at 95% confidence. The reported values for BWXT measurement of SDF in the 25%PF compacts are 9.25E-5 (measured fraction) and \leq 1.22E-4 (95% confidence limit). These values are higher than and appear to be marginally inconsistent with the ORNL results (the BWXT measured mean is slightly above the ORNL 95% confidence limit). As for the DUF comparison, further analysis of the individual leach results obtained by the BWXT analysis is needed to understand this apparent inconsistency.

3.2 LBL ANALYSIS FOR OTHER EXPOSED IMPURITIES IN 25%PF COMPACTS

Table 3-5 shows the results of the LBL impurity analysis for the impurities specified for compacts in the AGR-5/6/7 fuel specification [Marshall 2016]. Values are listed as the measured concentration in μg per compact. The values uncorrected by subtraction of the control blank and the minimum and maximum corrected values, as described in Section 2, are all provided, and the 95% confidence limit on the mean value is based on the maximum corrected data. Clutch to clutch variability was generally low, indicating that the impurities were fairly evenly distributed between the random clutches. The Group 4 transition metals were well below specified limits, except for iron, which was significantly above the specified limit of \leq 25 μg /compact at 95% confidence. Calcium and aluminum were also significantly above the specified limit of \leq 50 μg /compact at 95% confidence. Calcium and aluminum levels in the control blanks were elevated compared to the other measured impurities, but not enough to fully account for the high values in the compact clutch leachates.

Table 3-5. Impurities in 25%PF compacts not contained by intact SiC layers

Impurity	Uncorrected Mean		Minimum Corrected Mean		Maximum Corrected Mean			95% Confidence Limit		
Fe	78.86	±	4.73	77.29	±	4.75	77.62	±	4.75	≤83.21
Cr	< 0.45	±	0.06	0.16	\pm	0.05	0.39	\pm	0.06	≤0.46
Mn	< 0.577	±	0.029	0.522	\pm	0.029	0.561	\pm	0.029	≤0.60
Co	0.048	±	0.005	0.041	\pm	0.005	0.043	\pm	0.005	≤0.05
Ni	<1.24	±	0.26	0.56	\pm	0.25	1.24	\pm	0.26	≤1.55
Cr+Mn+Co+Ni	<2.32	±	0.23	1.28	\pm	0.20	2.24	\pm	0.23	≤5.01
Ca	<138.38	±	5.83	105.91	\pm	5.85	135.21	\pm	5.83	≤142.08
Al	173.16	±	4.16	166.80	\pm	4.16	166.80	\pm	4.16	≤171.69
Ti	12.11	±	2.85	11.54	\pm	2.85	12.11	\pm	2.85	≤15.46
V	5.46	±	0.08	5.45	±	0.08	5.46	±	0.08	≤5.56
Ti + V	17.58	±	2.87	16.99	±	2.87	17.57	±	2.87	≤20.95

The amount of each impurity detected by LBL is reported as the mean \pm the standard deviation (in μg /compact) of the total measured in the four separate clutches in Group 1.

The 95% confidence limit is calculated with Student's t-distribution from the maximum corrected mean values.

4. COMPACTS WITH 40% PACKING FRACTION

Confirmatory LBL analysis was completed on 40 compacts from Batch J52R-16-14154C. These were 40% packing fraction compacts from a single BWXT furnace tray run. These 40 compacts were randomly sampled in clutches of 5 compacts each. The eight clutches were split into two groups of four clutches and each group was processed together with a blank sample. All leach solutions were analyzed for uranium contents and Group 2 leachates were also analyzed for other impurities (Fe, Cr, Mn, Co, Ni, Ca, Al, Ti, and V). Appendix B contains the official pre-burn leach and post-burn leach data report form (DRF) for each analyzed clutch of five compacts and inspection report forms (IRFs) that summarize the data. This data is further presented and discussed in the remainder of this section.

4.1 LBL ANALYSIS FOR EXPOSED URANIUM IN 40%PF COMPACTS

Table 4-1 shows uranium (in kernel-equivalents) in each solution collected during pre-burn leaching of the eight 40%PF compact clutches from Batch J52R-16-14154C. Also in the table are the individual pre-burn leach total U and DUF_{Pre} (if applicable) for each clutch. The water rinse data was only added to the total if it was >10% of the second leach and >1% of the average uranium per kernel, as noted in the table. Clutches displayed in bold had leached uranium \geq 0.5 kernel-equivalents and therefore were counted as containing exposed-kernel defects. Only clutches without exposed-kernel defects were eligible for DUF measurement. Table 4-2 shows the same data for the post-burn leach. Table 4-3 and Table 4-4 summarize the defect fraction results.

Clutch 1st Leach 2nd Leach Water Rinse Total DUF Pre 1 1.95E+0 1.38E-1 3.03E-2 2.12 ---2 3.07 8.55E-1 1.89E+03.22E-1 3.79E-2 3 1.82E+0 1.86E-1 2.04 ---4 2.47E+02.43E-1 2.79E-2 2.75 5 2.76E-2 5.73E-3 0.03 1.91E-6 6 3.87E-2 6.84E-3 0.05 2.62E-6 7 9.33E-1 1.52E-1 1.09 8 2.60E-2 6.36E-3 0.03 1.86E-6

Table 4-1. Uranium leached from 40%PF compacts before the burn

Uranium content in each leach is reported in kernel-equivalents; individual DUF_{Pre} is the pre-burn leach fraction of exposed uranium in each clutch with <0.5 exposed kernel-equivalents; and the water rinse was not added to the total if shaded gray.

Water Rinse Clutch 1st Leach 2nd Leach Total **DUF** Post 1 1.03E+0 8.35E-3 1.38E-4 1.04 2 8.10E-2 5.14E-3 2.10E-4 0.09 4.95E-6 3 8.27E-1 1.23E-2 2.44E-4 0.84 4 7.23E-1 3.17E-1 3.70E-3 1.04 5 3.70E-2 7.26E-4 8.88E-5 0.04 2.17E-6 6 3.14E-2 1.50E-4 0.03 7.58E-4 1.85E-6 7 8.41E-3 1.06E+0 1.60E-4 1.07 2.03E-4 3.47E-2 6.62E-4 0.04 2.03E-6

Table 4-2. Uranium leached from 40%PF compacts after the burn

Uranium content in each leach is reported in kernel-equivalents; individual DUF_{Post} is the post-burn leach fraction of exposed uranium in each clutch with <0.5 exposed kernel-equivalents; and the water rinse was not added to the total if shaded gray.

Dispersed uranium values were fairly consistent in the pre-burn and post-burn clutches that did not contain a defective particle, with the exception of Clutch 2. Clutch 2 had elevated levels of uranium detected in the post-burn leach series and previous observations have shown that this was likely related to

the presence of the exposed-kernel defects detected in the pre-burn leach series. During defective IPyC analysis of the coating batches used in the AGR-5/6/7 coated particle composite Lot J52R-16-98005, particles were heated to simulate the 1800°C heat treatment during compacting and subsequently examined with x-ray tomography [Helmreich et al. 2017b]. Particles with impact-cracked TRISO layers (exposed-kernel defects) exhibited significant reaction between the uranium in the kernel and the surrounding carbon layers. Presumably, uranium can also migrate out of exposed-kernel defects into the surrounding graphite and carbonized resin in a compact. This dispersed uranium may become sequestered within the graphite structure where the acid cannot effectively penetrate or be in a less soluble chemical form until after the burn phase. Throughout the AGR development and qualification campaign, it has been observed that compacts containing particles with exposed-kernel defects exhibit elevated uranium levels in the first post-burn leach. Because the contamination detected in the Clutch 2 post-burn leaches may be in the form of dispersed uranium even though its original source was particles with exposed-kernel defects, it should be included in the final DUF results. However, for comparative information, Table 4-3 also shows the combined DUF values with Clutch 2 post-burn leaches excluded.

DUF Pre DUF Post **DUF** Total 2.13E-6 4.88E-6 Mean 2.75E-6 All 40 compacts Standard deviation 4.22E-7 1.47E-6 ≤2.85E-6 95% Confidence limit <4.49E-6 <6.88E-6 2.13E-6 2.02E-6 4.15E-6 Mean Excluding Clutch 2 Standard deviation 4.22E-7 1.59E-7 95% Confidence limit ≤2.85E-6 ≤2.29E-6 ≤4.97E-6

Table 4-3. Dispersed uranium in 40%PF compacts

The DUF values measured in the ORNL analysis indicate that the 40%PF compact batch DUF_{Total} was below the specified limit of DUF_{Total} \leq 1E-5 at 95% confidence. The reported values [Marshall 2017] for BWXT measurement of DUF_{Total} in the 40%PF compacts are 3.18E-5 (measured-sample mean) and \leq 3.80E-5 (95% confidence limit on mean). These values are considerably higher than and appear to be inconsistent with the ORNL results.

There appeared to be a total of 11 exposed-kernel defects in the pre-burn leach material, but 10 of these were found in the first group (Table 4-1), which suggests the possibility of an erroneously high defect fraction due to some artifact of the LBL analysis. The probability of the observed distribution occurring if the exposed-kernel defects were all present in the over-coated particle composite is extremely low. With thousands of over-coated particles in each compact, defects in the over-coated particle composite should be much more evenly distributed between the compacts. If the compacting process was the major contributor to the high exposed-kernel defect count, then the sampling size is much smaller (20 compacts per group rather than ~70,000 particles) and the probability of the observed distribution is higher but still unlikely (roughly <10% based on a simplified probability estimate). Additional groups of compacts would have to be analyzed to determine if the Group 1 data is an artifact of the LBL analysis or an indicator of damage introduced by the compacting process. It is estimated that one or two more groups of 20 compacts with defect fractions similar to Group 2 would allow the Group 1 data to be discarded with good confidence.

The possibility for defects being introduced during LBL analysis is usually low. However, the AGR-5/6/7 LBL analysis proved to be much more difficult than previous LBL analysis of AGR compacts made with a different graphite/resin blend. The AGR-5/6/7 matrix appeared to contain much finer particles of graphite and this resulted in a very viscous suspension in the acid that complicated the separation of the coated particles from the leach acid and increased the centrifuge time required to extract a suitable sample for mass spectrometry. It may be that the Group 1 data, being the first set of AGR-5/6/7 compacts analyzed, was the victim of a learning curve.

Table 4-4 shows the defect fraction results for all 40 compacts and for just the 20 compacts in Group 2. The combined results of the analysis are above the specified limit of EKF ≤5E-5 at 95% confidence. The Group 2 data by itself is also slightly above the specified limit of EKF ≤5E-5 at 95% confidence, but the measured data indicates that analysis of additional compacts (if they are similar to Group 2 in EKF) would reduce the statistical penalty in the binomial distribution calculation of the 95% confidence limit and result in a value below the specified limit. The reported values for BWXT measurement of EKF in the 40%PF compacts are 6.57E-5 (measured fraction) and ≤9.28E-5 (95% confidence limit). These results are similar to the combined ORNL results for all 40 compacts but inconsistent with the ORNL results for Group 2 by itself. This could suggest that the low results for Group 2 were simply a statistically unlikely result of the random division of the 40 compacts into clutches. However, if additional groups of 40%PF compacts exhibit defect fractions similar to Group 2, then perhaps the values observed in the BWXT analysis were impacted by the difficulties in processing these samples, as appears to be the case for the ORNL Group 1 data.

		EKF	SDF
	Number defects	11	4
A11.40 aammaata	Number particles	139,160	139,160
All 40 compacts	Measured fraction	7.90E-5	2.87E-5
	95% Confidence limit	≤1.31E-4	≤6.58E-5
	Number defects	1	1
Excluding Group 1	Number particles	69,580	69,580
	Measured fraction	1.44E-5	1.44E-5
	95% Confidence limit	≤6.82E-5	≤6.82E-5

Table 4-4. Defect fractions in 40%PF compacts

It is not clear whether LBL analysis difficulties may have also impacted the determination of the SDF in the post-burn leaching. There were more post-burn leach kernel-equivalents in Group 1 than Group 2, and there is also a suggestion of a correlation between the presence of pre-burn leach defects and post-burn leach defects that introduces a whole new complication to the analysis. However, the calculated 95% confidence limits with and without Group 1 data included are almost the same and both are below the specified limit of SDF \leq 1E-4 at 95% confidence. The reported values for BWXT measurement of SDF in the 40%PF compacts are 6.96E-5 (measured fraction) and \leq 9.66E-5 (95% confidence limit). These values are higher than and appear to be marginally inconsistent with the ORNL results (the BWXT measured mean is slightly above the ORNL 95% confidence limit). Similar to the SDF analysis for the 25%PF compacts, further analysis of the individual leach results obtained by the BWXT analysis is needed to understand this possible inconsistency.

4.2 LBL ANALYSIS FOR OTHER EXPOSED IMPURITIES IN 40%PF COMPACTS

Table 4-5 shows the results of the LBL impurity analysis for the impurities specified for compacts in the AGR-5/6/7 fuel specification [Marshall 2016]. Values are listed as the measured concentration in μg per compact. The values uncorrected by subtraction of the control blank and the minimum and maximum corrected values, as described in Section 2, are all provided, and the 95% confidence limit on the mean value is based on the maximum corrected data. Results were similar to the 25%PF compacts (Table 3-5). Clutch to clutch variability was generally low, indicating that the impurities were fairly evenly distributed between the random clutches. The Group 4 transition metals were well below specified limits, except for iron, which was significantly above the specified limit of \leq 25 μg /compact at 95% confidence. Calcium and aluminum were also significantly above the specified limit of \leq 50 μg /compact at 95% confidence. Calcium and aluminum levels in the control blanks were elevated compared to the other measured impurities, but not enough to fully account for the high values in the compact clutch leachates. The relative calcium and aluminum impurity levels between the two different packing fractions is consistent

with the relative fraction of matrix material, which provides additional indication that the values are not artifacts and suggests that the matrix could be the dominant source of these impurities.

Table 4-5. Impurities in 40%PF compacts not contained by intact SiC layers

Impurity	Uncorrected Mean	Minimum Corrected Mean	Maximum Corrected Mean	95% Confidence Limit
Fe	<51.23 ± 5.11	46.03 ± 5.09	48.16 ± 5.11	≤54.17
Cr	<0.73 ± 0.22	0.56 ± 0.22	0.65 ± 0.22	≤0.91
Mn	<0.414 ± 0.013	0.327 ± 0.012	0.345 ± 0.013	≤0.36
Co	<0.029 ± 0.004	0.017 ± 0.004	0.021 ± 0.004	≤0.03
Ni	<1.64 ± 0.46	0.94 ± 0.46	1.64 ± 0.46	≤2.18
Cr+Mn+Co+Ni	<2.81 ± 0.49	1.85 ± 0.49	2.65 ± 0.49	≤8.63
Ca	116.63 ± 8.38	96.76 ± 8.38	114.27 ± 8.38	≤124.14
Al	138.65 ± 4.33	133.95 ± 4.33	133.95 ± 4.33	≤139.05
Ti	9.66 ± 0.41	9.31 ± 0.41	9.66 ± 0.41	≤10.15
V	5.54 ± 0.08	5.51 ± 0.08	5.54 ± 0.08	≤5.63
Ti + V	15.20 ± 0.49	14.82 ± 0.49	15.20 ± 0.49	≤15.78

The amount of each impurity detected by LBL is reported as the mean \pm the standard deviation (in μ g/compact) of the total measured in the four separate clutches in Group 2.

The 95% confidence limit is calculated with Student's t-distribution from the maximum corrected mean values.

5. OVERCOATED PARTICLES

Supplementary LBL analysis was completed on over-coated particles taken from Batch J52R-16-11034 (used for the 40%PF compacts). These over-coated particles were randomly riffled by a gentle cone and quartering method with emphasis on avoiding damage from handling prior to analysis. Eight "clutches" were created with approximately the same number of particles per clutch as in the five-compact clutches used in the 40%PF compact LBL analysis. Ten sub-samples were also riffled for measurement of average over-coated particle weight according to the procedure in AGR-CHAR-DAM-22. Particle number was determined by weighing the clutches and dividing by the average weight per over-coated particle. The eight clutches were split into two groups of four clutches and LBL performed on each group together with a blank sample. All leach solutions were analyzed for uranium content only. Appendix C contains the official pre-burn leach and post-burn leach data report form (DRF) for each analyzed clutch and inspection report forms (IRFs) that summarize the data. This data is further presented and discussed in the remainder of this section.

5.1 LBL ANALYSIS FOR EXPOSED URANIUM IN OVER-COATED PARTICLES

Table 5-1 shows uranium (in kernel-equivalents) in each solution collected during pre-burn leaching of the eight over-coated particle clutches from Batch J52R-16-11034. Also in the table are the individual pre-burn leach total U and DUF_{Pre} (if applicable) for each clutch. The water rinse data was only added to the total if it was >10% of the second leach and >1% of the average uranium per kernel, as noted in the table. Clutches displayed in bold had leached uranium >0.5 kernel-equivalents and therefore were counted as containing exposed-kernel defects. Only clutches without exposed-kernel defects were eligible for DUF measurement. Table 5-2 shows the same data for the post-burn leach. Table 5-3 and Table 5-4 summarize the defect fraction results.

Clutch 1st Leach 2nd Leach Water Rinse DUF Pre Total 7.92E-2 1.05E-2 6.36E-4 0.09 5.09E-6 2 8.03E-2 1.61E-2 9.27E-4 0.10 5.18E-6 3 8.06E-2 1.10E-2 7.25E-4 0.09 5.10E-6 4 7.88E-2 1.85E-2 9.78E-4 0.10 5.46E-6 5 2.64E+0 4.48E-1 3.09 6 7.92E-2 9.51E-2 0.17 9.31E-6 7 9.21E-2 1.94E-2 0.11 6.30E-6 8 3.53E+0 5.98E-2 3.59

Table 5-1. Uranium leached from over-coated particles before the burn

Uranium content in each leach is reported in kernel-equivalents; individual DUF_{Pre} is the pre-burn leach fraction of exposed uranium in each clutch with <0.5 exposed kernel-equivalents; and the water rinse was not added to the total if shaded gray.

Table 5-2. Uranium leached from over-coated particles after the burn

Clutch	1st Leach	2nd Leach	Water Rinse	Total	DUF Post
1	2.38E-3	1.34E-3		0.004	2.11E-7
2	2.58E-3	3.56E-4		0.003	1.58E-7
3	3.01E-3	5.52E-4		0.004	1.98E-7
4	1.23E+0	3.47E-3		1.234	
5	1.46E-1	2.09E-3		0.149	7.48E-6
6	6.61E-3	9.98E-2		0.106	5.69E-6
7	6.13E-3	2.77E-4		0.006	3.62E-7
8	1.38E-2	4.13E-4		0.014	7.51E-7

Uranium content in each leach is reported in kernel-equivalents; individual DUF_{Post} is the post-burn leach fraction of exposed uranium in each clutch with <0.5 exposed kernel-equivalents; and the water rinse was not added to the total if shaded gray.

Dispersed uranium values were fairly consistent in the pre-burn and post-burn clutches that did not contain a defective particle, with the exception of Clutches 5, 6, and 8. Clutch 6 had elevated levels of uranium detected in both the pre-burn and post-burn leach series similar to that observed in Clutch 3 of the 25%PF compact sample (Table 3-1). This could be due to localized uranium contamination (possibly in a single particle). Such localized uranium contamination was observed in the x-ray imaging during defective IPyC analysis of the coating batches used in the AGR-5/6/7 coated particle composite [Helmreich et al. 2017b]. Clutches 5 and 8 had elevated levels of uranium detected in the post-burn leach series presumably related to the exposed-kernel defects detected in the pre-burn leach series, as discussed in Section 4.1 with regard to Clutch 3 of the 40%PF compact sample (Table 4-1). In conjunction with the unlikely high exposed-kernel count in Clutches 5 and 8, there is a strong case for rejection of the second group of clutches due to suspect artifacts from the LBL analysis; this is discussed further below. For comparative information, Table 5-3 shows the combined DUF values for all clutches and for just the first four clutches analyzed in the first group. Excluding Group 2 makes a significant difference in the measured mean and standard deviation. The impact is less significant in the 95% confidence limit only because of the reduced sample size.

The reported value [Marshall 2017] for BWXT measurement of the mean DUF_{Total} in the coated particle composite Lot J52R-16-98005 is 2.28E-5 (measured mean). This value is considerably higher than either DUF_{Total} value calculated from the ORNL data and reported in Table 5-3 and appears to be inconsistent with the ORNL results.

		DUF Pre	DUF Post	DUF Total
	Mean	6.07E-6	2.12E-6	8.19E-6
All 8 clutches	Standard deviation	1.65E-6	3.10E-6	
	95% Confidence limit	≤7.43E-6	≤4.40E-6	≤1.09E-5
	Mean	5.20E-6	1.89E-7	5.39E-6
Excluding Group 2	Standard deviation	1.73E-7	2.78E-8	
	95% Confidence limit	≤5.41E-6	≤2.37E-7	≤5.62E-6

Table 5-3. Dispersed uranium in over-coated particles

There appeared to be a total of six or seven exposed-kernel defects in the pre-burn leach material, six after subtraction of the mean DUF in the pre-burn leach and rounding to the nearest whole number as instructed by the AGR-5/6/7 fuel specification. However, the apparent exposed-kernel defects were found clustered in just two clutches in the second group (Table 5-1), which suggests the possibility of an erroneously high defect fraction due to some artifact of the LBL analysis. The probability of six exposed-kernel defects being clustered this way is less than 1%. It is conjectured that erroneous data may have resulted from the combination of the challenge of working with the AGR-5/6/7 graphite/resin overcoating material, which produces a viscous suspension in the leach acid that was difficult to separate from the TRISO particles, combined with the fact that Group 2 analysis was done by less experienced personnel. As for the 40% compact analysis, additional LBL on another sample of over-coated particles is recommended for firmly establishing the hypothesis that the Group 2 data should be rejected and the Group 1 data is representative of the actual batch properties.

Table 5-4 presents the EKF and SDF values based on all eight clutches versus only the first four clutches analyzed together in the first group. The measured EKF is significantly lower when the Group 2 data is deleted, but the 95% confidence limit is still relatively high because of the small sample size. This high statistical uncertainty in the batch EKF makes comparison to the BWXT particle and compact data of limited value. The combined results of the LBL analysis for exposed kernels before the burn are above the specified limit of EKF \leq 5E-5 at 95% confidence, while the Group 1 data by itself is below the specified limit, even with the higher statistical penalty in calculating the 95% confidence limit for a smaller sample.

Table 5-4. Defect fractions in over-coated particles

		EKF	SDF
	Number defects	6	1
All 8 clutches	Number particles	147,270	147,270
All 8 clutches	Measured fraction	4.07E-5	6.79E-6
	95% Confidence limit	≤8.05E-5	≤3.23E-5
	Number defects	0	1
Excluding Group 2	Number particles	72,039	72,039
	Measured fraction	0	1.39E-5
	95% Confidence limit	≤4.16E-5	≤6.59E-5

Excluding Group 2 is probably not necessary in the consideration of the SDF as no defective SiC particles were introduced by the presumed analysis issues related to that group, and it is helpful to include the Group 1 data in the SDF determination to reduce the statistical penalty in calculating the 95% confidence limit. The measured fraction of 6.79E-6 and 95% confidence limit of \leq 3.23E-5 is consistent with the BWXT measured values for the 98005 TRISO composite of 2.83E-5 (measured fraction) and \leq 3.27E-5 (95% confidence limit). The SDF values for the over-coated particle batch are also consistent with the ORNL values from the 40%PF compact analysis (Table 4-4).

6. CONCLUSION

Confirmatory LBL analyses of 40 compacts from 25%PF and 40%PF AGR-5/6/7 compact batches were completed at ORNL and compared to the BWXT LBL results. The amount of uranium leached from the deconsolidated particles and compact matrix residue during the pre-burn leach and post-burn leach phases was used to calculate the EKF, SDF, and DUF. The limited sample size and difficulties with the LBL analysis itself complicated the comparison, but some trends were apparent. Supplemental analysis of a sample of the over-coated particle used for the 40%PF compacts was also measured.

The DUF_{Total} measured by ORNL was lower than that measured by BWXT for both compact samples and for the over-coated particles (in comparison to BWXT data for the TRISO particle composite). The ORNL data indicate that the AGR-5/6/7 material has a DUF_{Total} below the AGR-5/6/7 specified limit of DUF_{Total} ≤1E-5 at 95% confidence. Reasons for the inconsistency between the two laboratories may become apparent if further analysis of the individual leach results obtained by BWXT is performed. Initial review of the BWXT leaching results (not discussed in this report) shows that numerous leaches yielded results in the range of 0.1–0.3 kernel-equivalents. This could be related to what was observed in Clutch 3 of the ORNL 25%PF sample and Clutch 6 of the over-coated particle sample, which indicated that there was non-uniformly dispersed, abnormally-high uranium contamination in those clutches. Such localized uranium contamination was also observed in the x-ray imaging during defective IPvC analysis of the coating batches used in the AGR-5/6/7 coated particle composite [Helmreich et al. 2017b]. A second explanation for the numerous BWXT data points in the range of 0.1–0.3 kernel-equivalents may be particle damage and incomplete leaching during the LBL process as a result of the same difficulty experienced by ORNL in separating the leachate from the particles and matrix debris. Some of the BWXT leach results indicate detection of more exposed uranium in the second leach than in the first, which seems to indicate that particle damage and/or incomplete leaching was occurring.

Excluding clutches that had abnormally-high DUF because of what appeared to be contributions from either localized uranium contamination (e.g., 25%PF Clutch 3) or residual uranium in the post-burn leach from exposed-kernel defects (e.g., 40%PF Cutch 2) yielded well-defined and similar DUF_{Total} values of 5.14E-6 (measured mean) and \leq 6.31E-6 (95% confidence limit) for 25%PF compacts, versus 4.15E-6 (measured mean) and \leq 4.97E-6 (95% confidence limit) for 40%PF compacts. These compact DUF_{Total} values matched up well with that for over-coated particle Group 1 of 5.39E-6 (measured mean) and \leq 5.62E-6 (95% confidence limit), suggesting the source of this overall dispersed uranium contamination is in the TRISO particles. Including the data presumably impacted by localized contamination in the particle coatings or the presence of exposed kernel defects causes these filtered values to increase significantly. However, how the abnormal clutches should be pooled with the more normally-distributed results should be examined, as the Students t-test may not be the proper approach.

Pre-burn leaching of the AGR-5/6/7 compacts and over-coated particles was complicated by the fact that the AGR-5/6/7 matrix material contains graphite and carbon fines that produce a viscous suspension in the pre-burn leach acid. This made it much more difficult to transfer the acid into the centrifuge tubes while trying to leave the particles in the vessel used for leaching and burning. It also made it harder to separate the liquid from the suspended fines and harder to transfer the fines back into the vessel after the leachate was removed. Earlier AGR compacts for which the current procedure was developed did not produce the same problem, and some modifications to the LBL procedure are recommended for working with the AGR-5/6/7 samples. Whether or not the 40%PF compacts may satisfy the fuel specification limits on the EKF depends on whether some of the observed results are artifacts of the problems in handling the LBL samples. Measurement of additional samples could help with this determination, given that there is some indication that familiarity with the processing difficulties reduced their impact on the results.

Inclusion of the 40%PF Group 1 clutches results in a measured EKF of 7.90E-5, which is sufficient to fail the compact batch (Table 4-4). Exclusion of the Group 1 clutches results in a lower measured fraction of 1.44E-5 but insufficient sample size to determine that the 40%PF compact batch has less than the allowable limit of EKF \leq 5E-5 at 95% confidence. The EKF results from the 25%PF compacts did not appear to be impacted by the handling difficulties and there was only one clutch identified to contain an exposed-kernel defect, yielding a measured fraction of 1.09E-5 and a 95% confidence limit of \leq 5.18E-5 (Table 3-4). This is slightly above the specified limit of EKF \leq 5E-5 at 95% confidence but the measured data indicate that analysis of additional compacts to reduce the statistical penalty in the binomial distribution calculation of the 95% confidence limit would result in a value below the specified limit. For the over-coated particles, the EKF value is again dependent on whether some of the results were an artifact of the LBL process.

The SDF determination did not appear to be affected by the problems associated with the pre-burn leach analysis. Similar results were obtained from the 25%PF and 40%PF samples, The 25%PF compact sample yielded a measured fraction of 3.27E-5 and a 95% confidence value of \leq 8.46E-5 (Table 3-4); and the 40%PF sample yielded a measured fraction of 2.87E-5 and a 95% confidence value of \leq 6.58E-5 (Table 4-4). The over-coated particle results were a little lower with a measured fraction of 6.79E-6 and a 95% confidence value of \leq 3.23E-5. All these results were consistent with a conclusion that the SDF is a function of defects in the coated particle lot, rather than defects introduced during compacting.

7. REFERENCES

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APPENDIX A. Report Forms for 25% Packing Fraction Compacts

Inspection Report Form IRF-B: Summary of Impurites Outside SiC — Maximum Corrected Values

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer Service Servic
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction

	1225, 1287,	1227, 1241,	1223, 1309,	1221, 1240,	F TT THE TA	
Compact ID numbers:	1303, 1802,	1264, 1819,	1319, 1800,	1243, 1266,	Mean	Standard
	1829	1831	1805	1316		Deviation
Number of compacts:	5	5	5	5		
Iron						
Pre-burn leach (DRF-26A) (μg):	170.56	160.90	177.34	160.64		
Post-burn leach (DRF-26B) (μg):	230.44	254.08	193.39	205.11		
Total leached (μg):	401.00	414.98	370.72	365.75		
Fe outside SiC (µg/compact):	80.20	83.00	74.14	73.15	77.62	4.75
Chromium						
Pre-burn leach (DRF-26A) (μg):	1.88	1.69	1.95	1.50		
Post-burn leach (DRF-26B) (μg):	0.36	0.15	0.17	0.14		
Total leached (μg):	2.25	1.84	2.13	1.64		
Cr outside SiC (µg/compact):	0.45	0.37	0.43	0.33	0.39	0.06
Manganese						VTI A
Pre-burn leach (DRF-26A) (μg):	2.86	2.58	2.66	2.48		
Post-burn leach (DRF-26B) (μg):	0.14	0.17	0.16	0.17		
Total leached (μg):	3.00	2.75	2.81	2.65		
Mn outside SiC (μg/compact):	0.60	0.55	0.56	0.53	0.561	0.029
Cobalt		THE RESIDENCE OF THE PARTY OF T	A STREET, ST.			
Pre-burn leach (DRF-26A) (μg):	0.06	0.05	0.06	0.08		
Post-burn leach (DRF-26B) (μg):	0.18	0.17	0.12	0.13		
Total leached (μg):	0.24	0.22	0.18	0.21		
Co outside SiC (µg/compact):	0.048	0.044	0.036	0.042	0.043	0.005
Nickel	The state of the s	Name of the Party		W. T. Stranding	A CHARLES	
Pre-burn leach (DRF-26A) (μg):	2.89	2.41	2.69	3.44		
Post-burn leach (DRF-26B) (μg):	2.36	2.56	4.27	4.21		
Total leached (µg):	5.25	4.98	6.96	7.65		
Ni outside SiC (μg/compact):	1.05	1.00	1.39	1.53	1.24	0.26
Transition Metals				THE RESERVE		
Cr+Mn+Co+Ni outside SiC (µg/compact):	2.15	1.96	2.42	2.43	2.24	0.23
Calcium					To the last of the	CALL STATE
Pre-burn leach (DRF-26A) (µg):	622.90	574.91	628.06	641.30		
Post-burn leach (DRF-26B) (µg):	47.26	67.76	49.95	72.16		
Total leached (µg):	670.16	642.67	678.01	713.46		
Ca outside SiC (µg/compact):	134.03	128.53	135.60	142.69	135.21	5.83
Aluminum						
Pre-burn leach (DRF-26A) (µg):	794.67	744.73	783.94	773.60		
Post-burn leach (DRF-26B) (μg):	29.36	85.65	33.55	90.58		
Total leached (µg):	824.03	830.37	817.49	864.17		
Al outside SiC (µg/compact):	164.81	166.07	163.50	172.83	166.80	4.16
Titanium	The Held					
Pre-burn leach (DRF-26A) (µg):	33.92	34.63	57.64	24.62		
Post-burn leach (DRF-26B) (µg):	16.44	27.25	22.57	25.17		
Total leached (µg):	50.36	61.88	80.22	49.79		
Ti outside SiC (µg/compact):	10.07	12.38	16.04	9.96	12.11	2.85
Vanadium		SA RESIDEN				
Pre-burn leach (DRF-26A) (µg):	20.98	19.60	21.10	19.60		
Post-burn leach (DRF-26B) (μg):	6.74	7.72	6.32	7.16		
Total leached (µg):	27.72	27.31	27.42	26.76		
V outside SiC (µg/compact):	5.54	5.46	5.48	5.35	5.46	0.08
Titanium and Vanadium						0,00
Ti + V outside SiC (μg/compact):	15.62	17.84	21.53	15.31	17.57	2.87
The state of the s				20102	47107	2107

Comments

Data has been verified.	
Data has been verified.	



Inspection Report Form IRF-C: Summary of Pre-burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction

Compact ID numbers:	1225, 1287, 1303, 1802, 1829	1227, 1241, 1264, 1819, 1831	1223, 1309, 1319, 1800, 1805	1221, 1240, 1243, 1266, 1316	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	4.3E-02	3.5E-02	2.2E-01	7.6E-02	3.7E-01

Comments

2/05/2018	Pre-burn data has been verified	

Fred C. Montgomery

2-8-2018

Date

Inspection Report Form IRF-C: Summary of Pre-burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction

Compact ID numbers:	1233, 1254, 1287, 1291, 1821	1236, 1305, 1321, 1807, 1808	1257, 1258, 1285, 1298, 1324	1277, 1279, 1314, 1812, 1828	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	4.6E-02	9.5E-01	3.1E-02	3.7E-02	1.1E+00

Comments

Data has been verified.		19	Maria 7	

Fred C. Montgomery

2-8-2018

Date

Inspection Report Form IRF-D: Summary of Post-Burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction

Compact ID numbers:	1225, 1287, 1303, 1802, 1829	1227, 1241, 1264, 1819, 1831	1223, 1309, 1319, 1800, 1805	1221, 1240, 1243, 1266, 1316	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	1.3E-02	1.4E-02	1.3E-01	1.3E-02	1.7E-01

Comments

2/07/2018	Post-burn data has been verified.	10.6

Fred c. Montgomery Operator

2-8-2018 Date

Inspection Report Form IRF-D: Summary of Post-Burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction

Compact ID numbers:		1236, 1305, 1321, 1807, 1808	1257, 1258, 1285, 1298, 1324	1277, 1279, 1314, 1812, 1828	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	1.2E+00	2.2E+00	1.5E-02	1.6E-02	3.4E+00

Comments

Data has been verified.	

Fred C. Montgomey 2-8-2018
Operator

Data Report Form DRF-26A: Pre-Burn Leach Uranium and Impurities

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1225, 1287, 1303, 1802, 1829
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3,94E-06

	Γ	First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17121401	L17121901	
	Total volume of leach solution (ml):	156.0	192.0	
1				
	Radiochemical laboratory analysis number:	17908-001	17908-006	
Measured uranium concentration (µg/ml):		9.25E-02	1.39E-02	
	Uncertainty in uranium concentration (µg/ml):	9.25E-03	1.39E-03	
	Weight uranium leached (g):	1.44E-05	2.67E-06	1.71E-05
	Uncertainty in weight uranium leached (g):	1.44E-06	2.67E-07	1.47E-06
	Equivalent number of leached kernels:	3.66E-02	6.77E-03	4.34E-02
-1-5	Uncertainty in equivalent number of leached kernels:	3.68E-03	6.81E-04	3.75E-03
PER		95-04-039		THE PERSON NAMED IN
	Measured concentration of impurity in sample (µg/ml):	8.79E-01	1.72E-01	Fe
	Uncorrected weight of impurity in sample (µg):	137.12	33.02	174.86
Fe	Weight of impurity in blank (µg):	3.41	< 1.67	All the Control of
	Minimum corrected weight of impurity in sample (µg):	133.71	31.35	168.88
	Maximum corrected weight of impurity in sample (µg):	133.71	33.02	170.56
1-72	Measured concentration of impurity in sample (µg/ml):	7.57E-03	3.66E-03	Cr
	Uncorrected weight of impurity in sample (µg):	1.18	0.70	1.88
Cr	Weight of impurity in blank (µg):	< 0.57	< 0.57	THE RESERVE TO SERVE
	Minimum corrected weight of impurity in sample (µg):	0.61	0.13	0.74
	Maximum corrected weight of impurity in sample (µg):	1.18	0.70	1.88
	Measured concentration of impurity in sample (μg/ml):	1.42E-02	3.08E-03	Mn
	Uncorrected weight of impurity in sample (µg):	2.22	0.59	2.91
Mn	Weight of impurity in blank (μg):	< 0.10	< 0.10	
	Minimum corrected weight of impurity in sample (μg):	2.12	0.49	2.67
	Maximum corrected weight of impurity in sample (µg):	2.22	0.59	2.86
	Measured concentration of impurity in sample (µg/ml):	4.16E-04	7.16E-05	Co
	Uncorrected weight of impurity in sample (μg):	0.06	0.01	0.08
Co	Weight of impurity in blank (µg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (μg):	0.05	0.01	0.05
	Maximum corrected weight of impurity in sample (µg):	0.05	0.01	0.06
	Measured concentration of impurity in sample (µg/ml):	9.42E-03	< 7.40E-03	Ni
	Uncorrected weight of impurity in sample (μg):	1.47	< 1.42	< 2.89
Ni	Weight of impurity in blank (μg):	< 1.45	< 1.45	
	Minimum corrected weight of impurity in sample (μg):	0.02	0.00	0.02
	Maximum corrected weight of impurity in sample (μg):	1.47	1.42	2.89
	Measured concentration of impurity in sample (µg/ml):	3.22E+00	6.28E-01	Ca
-	Uncorrected weight of impurity in sample (μg):	502.32	120.58	622,90
Ca	Weight of impurity in blank (μg):	<65.27	<65.27	
119	Minimum corrected weight of impurity in sample (μg):	437.05	55.31	492.36
	Maximum corrected weight of impurity in sample (μg):	502.32	120.58	622.90
	Measured concentration of impurity in sample (µg/ml):	4.13E+00	7.67E-01	Al
AI	Uncorrected weight of impurity in sample (µg):	644.28	147.26	811.38
AI	Weight of impurity in blank (μg):	7.70	3.94	704.67
7-17	Minimum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):	636.58 636.58	143.32 143.32	794.67 794.67
	Measured concentration of impurity in sample (µg/ml):	9.25E-02		/94.6/ Ti
	Uncorrected weight of impurity in sample (µg/mi):	14.43	6.34E-02 12.17	33.92
Ti	Weight of impurity in sample (µg):	< 1.04	< 1.04	33.92
	Minimum corrected weight of impurity in sample (µg):	13.39	11.14	31.57
	Maximum corrected weight of impurity in sample (µg):	14.43	12.17	33.92
	Measured concentration of impurity in sample (µg/ml);	1,01E-01	2.28E-02	33.92 V
- 3	Uncorrected weight of impurity in sample (µg):	15.76	4.38	20.98
v	Weight of impurity in sample (µg):	< 0.03	< 0.03	20.90
	Minimum corrected weight of impurity in sample (µg):	15.73	4.35	20.92
- 7	Maximum corrected weight of impurity in sample (µg):	15.76	4.38	20.92
	Plazimani corrected weight of impunity in sample (µg):	13.70	4,30	20.90

Water rinse	Include if > 10% of 2nd leach
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182.0	
171908-011	
1.42E-03	
1.42E-04	
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0.85

FCM checked the data against the Official Results of Analyses report for RMAL17908 on 2/5/2018.

Field C. Mentgomery 2-8-2018

Data Report Form DRF-26A: Pre-Burn Leach Uranium and Impurities

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1227, 1241, 1264, 1819, 1831
DRF filename:	\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3,94E-06

		First Leach	Second Leach	Total
die	Pre-burn leach solution ID:	L17121402	L17121902	
	Total volume of leach solution (ml):	144.0	182.0	
	Radiochemical laboratory analysis number:	17908-002	17908-007	
	Measured uranium concentration (µg/ml):	7.94E-02	1,30E-02	
	Uncertainty in uranium concentration (µg/ml):	7.94E-03	1.30E-03	
	Weight uranium leached (g):	1.14E-05	2,37E-06	1.38E-05
TRUE	Uncertainty in weight uranium leached (g):	1.14E-06	2.37E-07	1.17E-06
	Equivalent number of leached kernels:	2.90E-02	6.01E-03	3.50E-02
	Uncertainty in equivalent number of leached kernels:	2,92E-03	6.04E-04	2.99E-03
		AND RESIDENCE	The second second	
	Measured concentration of impurity in sample (µg/ml):	9.01E-01	1.74E-01	Fe
	Uncorrected weight of impurity in sample (µg):	129.74	31.67	165.21
Fe	Weight of impurity in blank (µg):	3.41	< 1.67	
	Minimum corrected weight of impurity in sample (µg):	126.33	29.99	159.23
	Maximum corrected weight of impurity in sample (μg):	126.33	31.67	160.90
	Measured concentration of impurity in sample (µg/ml):	7.30E-03	3.51E-03	Cr
	Uncorrected weight of impurity in sample (µg):	1.05	0.64	1.69
Cr	Weight of impurity in blank (µg):	< 0.57	< 0.57	
	Minimum corrected weight of impurity in sample (µg):	0.48	0.07	0.55
-	Maximum corrected weight of impurity in sample (μg):	1.05	0.64	1.69
	Measured concentration of impurity in sample (µg/ml):	1.47E-02	2.55E-03	Mn
	Uncorrected weight of impurity in sample (µg):	2.12	0.46	2.58
Mn	Weight of impurity in blank (μg):	< 0.10	< 0.10	
	Minimum corrected weight of impurity in sample (µg):	2.02	0.37	2.39
	Maximum corrected weight of impurity in sample (μg):	2.12	0.46	2.58
	Measured concentration of impurity in sample (µg/ml):	3.91E-04	6.52E-05	Co
	Uncorrected weight of impurity in sample (µg):	0.06	0.01	0.07
Co	Weight of impurity in blank (μg):	0.02	< 0.01	1
	Minimum corrected weight of impurity in sample (μg):	0.04	0.00	0.04
	Maximum corrected weight of impurity in sample (μg):	0.04	0.01	0.05
	Measured concentration of impurity in sample (µg/ml):	< 7.40E-03	< 7.40E-03	Ni
	Uncorrected weight of impurity in sample (μg):	< 1.07	< 1.35	< 2.41
Ni	Weight of impurity in blank (μg):	< 1.45	< 1.45	
	Minimum corrected weight of impurity in sample (μg):	0.00	0.00	0.00
	Maximum corrected weight of impurity in sample (μg):	1.07	1.35	2.41
	Measured concentration of impurity in sample (µg/ml):	3.20E+00	6.27E-01	Ca
	Uncorrected weight of impurity in sample (µg):	460.80	114.11	574.91
Ca	Weight of impurity in blank (μg):	<65.27	<65.27	
	Minimum corrected weight of impurity in sample (μg):	395.53	48.85	444.38
	Maximum corrected weight of impurity in sample (μg):	460.80	114.11	574.91
	Measured concentration of impurity in sample (µg/ml):	4.16E+00	8.05E-01	Al
-	Uncorrected weight of impurity in sample (μg):	599.04	146.51	761.44
Al	Weight of impurity in blank (μg):	7.70	3.94	
	Minimum corrected weight of impurity in sample (μg):	591.34	142.57	744.73
	Maximum corrected weight of impurity in sample (μg):	591.34	142.57	744.73
E 5 W	Measured concentration of impurity in sample (µg/ml):	1.01E-01	7.08E-02	Ti
Ti	Uncorrected weight of impurity in sample (μg):	14.54	12.89	34.63
11	Weight of impurity in blank (μg):	< 1.04	< 1.04	
	Minimum corrected weight of impurity in sample (μg):	13.51	11.85	32.28
	Maximum corrected weight of impurity in sample (μg):	14.54	12.89	34.63
	Measured concentration of impurity in sample (µg/ml):	9.90E-02	2.48E-02	V
	Uncorrected weight of impurity in sample (µg):	14.26	4.51	19.60
V	Weight of impurity in blank (μg):	< 0.03	< 0.03	- N SELECT 197
	Minimum corrected weight of impurity in sample (μg):	14.23	4.49	19.54
	Maximum corrected weight of impurity in sample (μg):	14.26	4.51	19.60

Water rinse	Include if > 10% of 2nd leach
	ilicidde ii > 10% oi ziid leacii
W17121902	TO THE REPORT OF THE PARTY OF
116.0	
17000 010	
17908-012	
2.10E-03	The same of the sa
2.10E-04	· · · · · · · · · · · · · · · · · · ·
2.44E-07	N
2.44E-08	
6.18E-04	
6.22E-05	
The second second	
3.27E-02	
3.79	Υ
0.89	
2.90	
2.90	A STATE OF THE PARTY OF THE PAR
< 2.91E-03	THE RESERVE THE PARTY OF THE PA
< 0.34	N
< 0.15	
0.00	
0.34	
< 4.92E-04	The state of the s
< 0.06	N
0.05	
0.00	
0.01	
< 3.52E-05	
< 0.00	N
< 0.00	
0.00	
0.00	
< 7.40E-03	
< 0.86	N
< 0.38	
0.00	
0.86	
< 3.33E-01	
<38.63	N
<17.32	The state of the s
0.00	
38.63	
1.37E-01	State of the last
15.89	Y
5.07	
10.82	
10.82	
6.21E-02	CONTRACTOR AND ADDRESS OF THE PARTY.
7.20	Y
< 0.28	
6.93	
7.20	THE PARTY OF THE P
7.12E-03	THE RESERVE
0.83	Υ
< 0.01	
0.82	
0.83	THE RESERVE OF THE PARTY OF THE

FCM checked the data against the Official Results of Analyses report for RMAL17908 on 2/5/2018.

Fred C. Mentgomery 2-8-18

Data Report Form DRF-26A: Pre-Burn Leach Uranium and Impurities

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1223, 1309, 1319, 1800, 1805
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	ī	Flore Londo	Second Leach	7.11
Due house least and the 10		First Leach		Total
	Pre-burn leach solution ID:	L17121403	L17121903	
	Total volume of leach solution (ml):	156.0	208.0	
Radiochemical laboratory analysis number: 17908-003 1798-008				
Measured uranium concentration (µg/ml):		4.72E-01	5.43E-02	
Uncertainty in uranium concentration (µg/ml):		4.72E-01 4.72E-02	5.43E-03	
Weight uranium leached (g):		7.36E-05	1.13E-05	8.49E-05
	Uncertainty in weight uranium leached (g):	7.37E-06	1.13E-06	7.46E-06
	Equivalent number of leached kernels:	1.87E-01	2.87E-02	2.16E-01
Uncertainty in equivalent number of leached kernels:		1.88E-02	2.88E-03	1.90E-02
		1.002 02	2.002 03	1.502 02
	Measured concentration of impurity in sample (µg/ml):	9.34E-01	1.50E-01	Fe
	Uncorrected weight of impurity in sample (µg):	145.70	31.20	181,64
Fe	Weight of impurity in blank (µg):	3,41	< 1.67	
	Minimum corrected weight of impurity in sample (µg):	142.29	29.53	175.66
	Maximum corrected weight of impurity in sample (µg):	142.29	31.20	177.34
	Measured concentration of impurity in sample (µg/ml):	8.65E-03	< 2.91E-03	Cr
	Uncorrected weight of impurity in sample (µg):	1.35	< 0.61	< 1.95
Cr	Weight of impurity in blank (µg):	< 0.57	< 0.57	
	Minimum corrected weight of impurity in sample (µg):	0.78	0.00	0.78
	Maximum corrected weight of impurity in sample (μg):	1.35	0.61	1.95
1 34	Measured concentration of impurity in sample (µg/ml):	1.41E-02	2.19E-03	Mn
Mn	Uncorrected weight of impurity in sample (µg):	2.20	0.46	2.66
	Weight of impurity in blank (μg):	< 0.10	< 0.10	
	Minimum corrected weight of impurity in sample (μg):	2.10	0.36	2.46
	Maximum corrected weight of impurity in sample (μg):	2.20	0.46	2.66
Со	Measured concentration of impurity in sample (µg/ml):	4.44E-04	6.32E-05	Co
	Uncorrected weight of impurity in sample (μg):	0.07	0.01	0.08
	Weight of impurity in blank (μg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (µg):	0.05	0.01	0.06
Ni	Maximum corrected weight of impurity in sample (μg):	0.05	0.01	0.06
	Measured concentration of impurity in sample (µg/ml):	< 7.40E-03	< 7.40E-03	Ni
	Uncorrected weight of impurity in sample (µg): Weight of impurity in blank (µg):	< 1.15 < 1.45	< 1.54 < 1.45	< 2.69
141	Minimum corrected weight of impurity in sample (µg):	0.00	0.00	0.00
Ca	Maximum corrected weight of impurity in sample (µg):	1.15	1.54	2,69
	Measured concentration of impurity in sample (µg/ml):	3.25E+00	5.82E-01	Ca
	Uncorrected weight of impurity in sample (µg):	507.00	121.06	628.06
	Weight of impurity in sample (pg):	<65.27	<65.27	020.00
	Minimum corrected weight of impurity in sample (µg):	441.73	55.79	497.52
	Maximum corrected weight of impurity in sample (µg):	507.00	121.06	628.06
Al	Measured concentration of impurity in sample (µg/ml):	4.08E+00	6.97E-01	Al
	Uncorrected weight of impurity in sample (µg):	636.48	144.98	800,66
	Weight of impurity in blank (µg):	7.70	3.94	Name of the Owner, when the Party of the Owner, when the Party of the Owner, when the Owner, which the
	Minimum corrected weight of impurity in sample (μg):	628.78	141.04	783.94
	Maximum corrected weight of impurity in sample (µg):	628.78	141.04	783.94
Ti	Measured concentration of impurity in sample (µg/ml):	1.61E-01	1.03E-01	Ti
	Uncorrected weight of impurity in sample (µg):	25.12	21.42	57.64
	Weight of impurity in blank (µg):	< 1.04	< 1.04	The state of the s
	Minimum corrected weight of impurity in sample (μg):	24.08	20.39	55.30
	Maximum corrected weight of impurity in sample (μg):	25.12	21.42	57.64
v	Measured concentration of impurity in sample (µg/ml):	1.03E-01	2.06E-02	V
	Uncorrected weight of impurity in sample (µg):	16.07	4.28	21.10
	Weight of impurity in blank (μg):	< 0.03	< 0.03	THE RELEASE
	Minimum corrected weight of impurity in sample (μg):	16.04	4.26	21.04
	Maximum corrected weight of impurity in sample (μg):	16.07	4.28	21.10

Water rinse	Include if > 10% of 2nd leach
W17121903	
160.0	
100.0	
17908-013	
7.34E-03	
7.34E-04 1.17E-06	
1.17E-06 1.18E-07	N
2.98E-03	
3.00E-04	
3.002-04	
2.96E-02	
4.74	Y
0.89	
3.84	
3.84	
< 2.91E-03	
< 0.47	N
< 0.47	IV
0.00	
0.47	建筑
< 4.92E-04	
< 0.08	N
0.05	14
0.00	
0.03	工作的 等年的,第二章
< 3.52E-05	
< 0.01	N
< 0.00	N
0.00	
0.01	
< 7.40E-03	
< 1.18	N
< 0.38	14
0.00	
1.18	
< 3.33E-01	
<53.38	N
<17.32	14
0.00	
53.28	
1.20E-01	
19.20	Y
5.07	
14.13	
14.13	
6.94E-02	
11.10	Y
< 0.28	The second second
10.83	
11.10	
4.65E-03	
0.74	Y
< 0.01	A SOURCE AND THE OWNER OF THE OWNER.
0.74	
0.74	
017 1	

FCM checked the data against the Official Results of Analyses report for RMAL17908 on 2/5/2018.

Fred C. Mrytgomery 2-8-2018
Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1221, 1240, 1243, 1266, 1316
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
Pre-burn leach solution ID:		L17121404	L17121904	A STATE OF THE REAL PROPERTY.
Total volume of leach solution (ml):		182.0	180.0	
6				
	Radiochemical laboratory analysis number:	17908-004	17908-009	
	Measured uranium concentration (µg/ml):	1.46E-01	1.78E-02	
	Uncertainty in uranium concentration (µg/ml):	1.46E-02	1.78E-03	
	Weight uranium leached (g):	2.66E-05	3.20E-06	2.98E-05
1 6 6	Uncertainty in weight uranium leached (g):	2.66E-06	3.21E-07	2.68E-06
	Equivalent number of leached kernels:	6.74E-02	8.13E-03	7.56E-02
	Uncertainty in equivalent number of leached kernels:	6.78E-03	8.18E-04	6.84E-03
1000		3 Tolera 1 12 30	The Late of the La	
-	Measured concentration of impurity in sample (µg/ml):	7.56E-01	1.32E-01	Fe
	Uncorrected weight of impurity in sample (µg):	137.59	23.76	164.95
Fe	Weight of impurity in blank (µg):	3.41	< 1.67	Will be to b
	Minimum corrected weight of impurity in sample (µg):	134.18	22.09	158.97
53	Maximum corrected weight of impurity in sample (µg):	134.18	23.76	160.64
	Measured concentration of impurity in sample (µg/ml):	4.83E-03	3,44E-03	Cr
	Uncorrected weight of impurity in sample (µg):	0.88	0.62	1.50
Cr	Weight of impurity in blank (µg):	< 0.57	< 0.57	PERSONAL PROPERTY.
	Minimum corrected weight of impurity in sample (µg):	0.31	0.05	0.36
	Maximum corrected weight of impurity in sample (µg):	0.88	0.62	1.50
	Measured concentration of impurity in sample (µg/ml):	1.19E-02	1.72E-03	Mn
	Uncorrected weight of impurity in sample (µg):	2.17	0.31	2.48
Mn	Weight of impurity in blank (μg):	< 0.10	< 0.10	
	Minimum corrected weight of impurity in sample (µg):	2.07	0.21	2.28
	Maximum corrected weight of impurity in sample (µg):	2.17	0.31	2.48
	Measured concentration of impurity in sample (µg/ml):	4.26E-04	7.72F-05	Co
	Uncorrected weight of impurity in sample (µg):	0.08	0.01	0.10
Co	Weight of impurity in blank (µg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (µg):	0.06	0.01	0.07
	Maximum corrected weight of impurity in sample (µg):	0.06	0.01	0.08
-	Measured concentration of impurity in sample (µg/ml):	1.16E-02	< 7.40E-03	Ni
100	Uncorrected weight of impurity in sample (µg):	2.11	< 1.33	< 3.44
Ni	Weight of impurity in blank (µg):	< 1.45	< 1.45	THE PERSON NAMED IN
	Minimum corrected weight of impurity in sample (µg):	0.66	0.00	0.66
	Maximum corrected weight of impurity in sample (µg):	2.11	1.33	3.44
	Measured concentration of impurity in sample (µg/ml):	3.04E+00	4.89E-01	Ca
	Uncorrected weight of impurity in sample (µg):	553.28	88.02	641.30
Ca	Weight of impurity in blank (µg):	<65.27	<65.27	
	Minimum corrected weight of impurity in sample (µg):	488.01	22.75	510.76
I THE	Maximum corrected weight of impurity in sample (µg):	553.28	88.02	641.30
	Measured concentration of impurity in sample (µg/ml):	3.62E+00	6.35E-01	Al
	Uncorrected weight of impurity in sample (µg):	658.84	114.30	790.31
Al	Weight of impurity in blank (µg):	7.70	3.94	400
	Minimum corrected weight of impurity in sample (μg):	651.14	110.36	773.60
	Maximum corrected weight of impurity in sample (µg):	651.14	110.36	773.60
	Measured concentration of impurity in sample (µg/ml):	6.20E-02	3.52E-02	Ti
	Uncorrected weight of impurity in sample (µg):	11.28	6.34	24.62
Ti	Weight of impurity in blank (μg):	< 1.04	< 1.04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Minimum corrected weight of impurity in sample (μg):	10.25	5.30	22.27
	Maximum corrected weight of impurity in sample (μg):	11.28	6.34	24.62
1	Measured concentration of impurity in sample (µg/ml):	7.97E-02	2.10E-02	V
The state of	Uncorrected weight of impurity in sample (µg):	14.51	3.78	19.60
V	Weight of impurity in blank (μg):	< 0.03	< 0.03	
	Minimum corrected weight of impurity in sample (μg):	14.48	3.75	19.54
	Maximum corrected weight of impurity in sample (µg):	14.51	3.78	19.60

Water rinse	Include if > 10% of 2nd leach
W17121904	Mary State of the
148.0	
17908-014	
3.12E-03	
3.12E-04	
4.62E-07	N
4.62E-08	
1.17E-03	
1.18E-04	
ALC: UNKNOWN	
2.43E-02	
3.60	Υ
0.89	
2.70	
2.70 < 2.91E-03	
< 0.43	N
< 0.15	
0.00	
0.43	
< 4.92E-04	
< 0.07	N
0.05	
0.00	
0.02	
4.40E-05	
0.01	Υ
< 0.00	
0.00	
0.01	
< 7.40E-03	五
< 1.10	N
< 0.38	
0.00	
1.10 < 3.33E-01	
	THE RESERVE TO SHARE THE PARTY OF THE PARTY
<49.28 <17.32	N
0.00	
49.28	
1.16E-01	
17.17	Y
5.07	
12.10	
12.10	
4.73E-02	
7.00	Y
< 0.28	
6.73	The state of the s
7.00	Control of the Park of the Park
8.90E-03	
1.32	Υ
< 0.01	The street of the street of the state of
1.31	
1.32	

FCM checked the data against the Official Results of Analyses report for RMAL17908 on 2/5/2018.

Fied C. Montgoming 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	Pre-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
Pre-burn leach solution ID:		L17121405	L17121905	
	Total volume of leach solution (ml):	196.0	196.0	
	为企员的对象的企业企业,但是企业的企业			
	Radiochemical laboratory analysis number:	17908-005	17908-010	
	Measured uranium concentration (μg/ml):	1.76E-04	5.84E-05	
	Uncertainty in uranium concentration (µg/ml):	1.76E-05	5.84E-06	
	Weight uranium leached (g):	3.45E-08	1.14E-08	4.59E-08
	Uncertainty in weight uranium leached (g):	3.45E-09	1.15E-09	3.64E-09
	Equivalent number of leached kernels:	8.76E-05	2.91E-05	1.17E-04
	Uncertainty in equivalent number of leached kernels:	8.80E-06	2.92E-06	9.30E-06
Fe	Measured concentration (μg/ml):	1.74E-02	< 8.54E-03	Fe
	Total weight of leached impurity (µg):	3.41	< 1.67	< 5.98
Cr	Measured concentration (μg/ml):	< 2.91E-03	< 2.91E-03	Cr
Ŭ.	Total weight of leached impurity (μg):	< 0.57	< 0.57	< 1.14
Mn	Measured concentration (μg/ml):	< 4.92E-04	< 4.92E-04	Mn
	Total weight of leached impurity (μg):	< 0.10	< 0.10	< 0.24
Co	Measured concentration (μg/ml):	1.00E-04	< 3.52E-05	Co
	Total weight of leached impurity (μg):	0.02	< 0.01	< 0.03
Ni	Measured concentration (μg/ml):	< 7.40E-03	< 7.40E-03	Ni
	Total weight of leached impurity (μg):	< 1.45	< 1.45	< 2.90
Ca	Measured concentration (μg/ml):	< 3.33E-01	< 3.33E-01	Ca
	Total weight of leached impurity (µg):	<65.27	<65.27	<130.54
AI	Measured concentration (µg/ml):	3.93E-02	2.01E-02	Al
	Total weight of leached impurity (μg):	7.70	3.94	16.71
Ti	Measured concentration (μg/ml):	< 5.29E-03	< 5.29E-03	Ti
	Total weight of leached impurity (μg):	< 1.04	< 1.04	< 2.07
v	Measured concentration (μg/ml):	< 1.33E-04	< 1.33E-04	V
THE STATE	Total weight of leached impurity (μg):	< 0.03	< 0.03	< 0.05

Comments

FCM checked the data against the Official Results of Analyses report for RMAL17908 on 2/5/2018.

Fred C. Montgomery

2-8-2018

Date

I

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1225, 1287, 1303, 1802, 1829
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	ľ	First Leach	Second Leach	Total
	Post-burn leach solution ID:	B18010401	B18010801	Total
_	Total volume of leach solution (ml):	48.0	54.2	
-	Total volume of leach solution (im).	40.0	34.2	
	Radiochemical laboratory analysis number:	18063-001	18063-006	
	Measured uranium concentration (µg/ml):	1.03E-01	2.61E-03	
	Uncertainty in uranium concentration (µg/ml):	1.03E-02	2.61E-04	
	Weight uranium leached (q):	4.94E-06	1.41E-07	5.09E-06
	Uncertainty in weight uranium leached (g):	4.99E-07	1.42E-08	4.99E-07
100	Equivalent number of leached kernels:	1.25E-02	3.59E-04	1.29E-02
	Uncertainty in equivalent number of leached kernels:	1.27E-03	3.63E-05	1.27E-03
1000			TO DEED	
100	Measured concentration of impurity in sample (µg/ml):	4.73E+00	9.58E-02	Fe
- 65	Uncorrected weight of impurity in sample (µg):	227.04	5.19	232.23
Fe	Weight of impurity in blank (µg):	1.06	0.73	Company of the last
	Minimum corrected weight of impurity in sample (μg):	225.98	4.46	230.44
	Maximum corrected weight of impurity in sample (μg):	225.98	4.46	230.44
	Measured concentration of impurity in sample (µg/ml):	1.09E-02	< 2.91E-03	Cr
	Uncorrected weight of impurity in sample (µg):	0.52	< 0.16	< 0.68
Cr	Weight of impurity in blank (μg):	0.16	0.20	
+ X	Minimum corrected weight of impurity in sample (μg):	0.36	0.00	0.36
	Maximum corrected weight of impurity in sample (μg):	0.36	0.00	0.36
999	Measured concentration of impurity in sample (µg/ml):	3.69E-03	< 4.92E-04	Mn
	Uncorrected weight of impurity in sample (μg):	0.18	< 0.03	< 0.20
Mn	Weight of impurity in blank (μg):	0.04	0.04	
-	Minimum corrected weight of impurity in sample (μg):	0.14	0.00	0.14
	Maximum corrected weight of impurity in sample (μg):	0.14	0.00	0.14
	Measured concentration of impurity in sample (µg/ml):	3.74E-03	1.33E-04	Co
	Uncorrected weight of impurity in sample (µg):	0.18	0.01	0.19
Co	Weight of impurity in blank (µg):	0.00	0.00	
	Minimum corrected weight of impurity in sample (µg):	0.18	0.00	0.18
	Maximum corrected weight of impurity in sample (μg):	0.18	0.00	0.18
	Measured concentration of impurity in sample (µg/ml):	4.08E-02	< 7.40E-03	Ni
Ni	Uncorrected weight of impurity in sample (µg):	1.96	< 0.40	< 2.36
NI	Weight of impurity in blank (μg):	< 0.35	< 0.34	THE RESERVE
	Minimum corrected weight of impurity in sample (μg):	1.61	0.00	1.61
	Maximum corrected weight of impurity in sample (µg):	1.96	0.40	2.36
	Measured concentration of impurity in sample (µg/ml):	9.58E-01	< 3.33E-01	Ca
Ca	Uncorrected weight of impurity in sample (μg): Weight of impurity in blank (μq):	45.98 <15.65	<18.05 16.77	<64.03
Ca	Minimum corrected weight of impurity in sample (µg):	30.33	0.00	30.33
1	Maximum corrected weight of impurity in sample (µg):	45.98	1,28	47.26
-	Measured concentration of impurity in sample (µg/ml):	7.34E-01	1.83E-01	47.20 Al
	Uncorrected weight of impurity in sample (µg):	35.23	9.92	45.15
AI	Weight of impurity in blank (µg):	5.88	11.46	73.13
	Minimum corrected weight of impurity in sample (µg):	29.36	0.00	29,36
	Maximum corrected weight of impurity in sample (µg):	29.36	0.00	29.36
	Measured concentration of impurity in sample (µg/ml):	2.88E-01	4.82E-02	Ti
	Uncorrected weight of impurity in sample (µg):	13.82	2.61	16.44
Ti	Weight of impurity in blank (µg):	< 0.25	< 0.24	20111
	Minimum corrected weight of impurity in sample (µg):	13.58	2.37	15.94
355	Maximum corrected weight of impurity in sample (µg):	13.82	2.61	16.44
10.00	Measured concentration of impurity in sample (µg/ml):	1.39E-01	1.61E-03	V
	Uncorrected weight of impurity in sample (µg):	6.67	0.09	6,76
V	Weight of impurity in blank (µg):	0.02	< 0.01	
'	Minimum corrected weight of impurity in sample (µg):	6.65	0.08	6.73
-	Maximum corrected weight of impurity in sample (µg):	6.65	0.09	6.74

Water rinse	Include if > 10% of 2nd leach
W18010801	Include it > 1070 of End reach
21.0	
21.0	
18063-011	
3.83E-04	
3.83E-05	
8.04E-09	N
8.42E-10	The second secon
2.04E-05	
2.15E-06	
2.13E-00	
1.43E-02	
0.30	N
0.15	THE RESERVE OF THE PARTY OF THE
0.15	
0.15	
< 2.91E-03	
< 0.06	N
0.04	The second second second second second
0.00	
0.02	
< 4.92E-04	
< 0.01	N
0.01	
0.00	
0.00	
< 3.52E-05	
< 0.00	N
< 0.00	
0.00	
0.00	
< 7.40E-03	
< 0.16	N
< 0.11	
0.00	
0.16	
< 3.33E-01	
< 6.99	N
< 5.00	
0.00	
6.99	
2.81E-02	THE RESERVE THE PARTY OF THE PA
0.59	N
1.09	
0.00	
0.00	
< 5.29E-03	All the second s
< 0.11	N
< 0.08	
0.00	
0.11	
< 1.33E-04	A STATE OF THE PARTY OF THE PAR
< 0.00	N
< 0.00	
0.00	
0.00	

FCM checked the data against the Official Results of Analyses report for RMAL18063 on 2/7/2018.

Fuel C. Montgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1227, 1241, 1264, 1819, 1831
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	T T	First Leach	Second Leach	Total
	Post-burn leach solution ID:	B18010402	B18010802	Iotal
	Total volume of leach solution (ml):	44.0	50.2	
-	Total Volume of Teach Solution (IIII).	44.0	30.2	
	Radiochemical laboratory analysis number:	18063-002	18063-007	
Measured uranium concentration (µg/ml):		1.21E-01	2.32E-03	
	Uncertainty in uranium concentration (µg/ml):	1.21E-02	2.32E-04	
	Weight uranium leached (g):	5.32E-06	1.16E-07	5.44E-06
	Uncertainty in weight uranium leached (g):	5.38E-07	1.17E-08	5.38E-07
	Equivalent number of leached kernels:	1.35E-02	2.96E-04	1.38E-02
Tall 5	Uncertainty in equivalent number of leached kernels:	1.37E-03	3.00E-05	1.37E-03
			TATE - 15 / 1	
	Measured concentration of impurity in sample (µg/ml):	5.72E+00	8.34E-02	Fe
- 1	Uncorrected weight of impurity in sample (µg):	251.68	4.19	255.87
Fe	Weight of impurity in blank (µg):	1.06	0.73	
	Minimum corrected weight of impurity in sample (µg):	250.62	3.46	254.08
	Maximum corrected weight of impurity in sample (µg):	250.62	3.46	254.08
	Measured concentration of impurity in sample (µg/ml):	7.15E-03	< 2.91E-03	Cr
	Uncorrected weight of impurity in sample (µg):	0.31	< 0.15	< 0.46
Cr	Weight of impurity in blank (µg):	0.16	0.20	
	Minimum corrected weight of impurity in sample (μg):	0.15	0.00	0.15
	Maximum corrected weight of impurity in sample (μg):	0.15	0.00	0.15
	Measured concentration of impurity in sample (µg/ml):	4.87E-03	< 4.92E-04	Mn
	Uncorrected weight of impurity in sample (µg):	0.21	< 0.02	< 0.24
Mn	Weight of impurity in blank (μg):	0.04	0.04	
	Minimum corrected weight of impurity in sample (μg):	0.17	0.00	0.17
	Maximum corrected weight of impurity in sample (μg):	0.17	0.00	0.17
	Measured concentration of impurity in sample (µg/ml):	3.97E-03	8.28E-05	Co
	Uncorrected weight of impurity in sample (μg):	0.17	0.00	0.18
Co	Weight of impurity in blank (μg):	0.00	0.00	
	Minimum corrected weight of impurity in sample (μg):	0.17	0.00	0.17
	Maximum corrected weight of impurity in sample (μg):	0.17	0.00	0.17
	Measured concentration of impurity in sample (µg/ml):	4.98E-02	< 7.40E-03	Ni
	Uncorrected weight of impurity in sample (µg):	2.19	< 0.37	< 2.56
Ni	Weight of impurity in blank (μg):	< 0.35	< 0.34	
	Minimum corrected weight of impurity in sample (μg):	1.84	0.00	1.84
	Maximum corrected weight of impurity in sample (μg):	2.19	0.37	2.56
	Measured concentration of impurity in sample (µg/ml):	1.54E+00	< 3.33E-01	Ca
Ca	Uncorrected weight of impurity in sample (µg):	67.76	<16.72	<84.48
Ca	Weight of impurity in blank (μg):	<15.65	16.77	The same of the sa
	Minimum corrected weight of impurity in sample (μg):	52.11	0.00	52.11
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):	67.76 2.08E+00	0.00 1.80E-01	67.76
	Uncorrected weight of impurity in sample (µg/mi):	91.52	9.04	Al
AI	Weight of impurity in blank (µg):	5.88	11.46	100.56
~'	Minimum corrected weight of impurity in sample (µg):	85.65	0.00	85.65
	Maximum corrected weight of impurity in sample (µg):	85.65	0.00	85.65
	Measured concentration of impurity in sample (µg/ml):	5.87E-01	2.83E-02	85.65 Ti
	Uncorrected weight of impurity in sample (µg/mi):	25.83	1.42	27.25
Ti	Weight of impurity in sample (µg):	< 0.25	< 0.24	21.23
	Minimum corrected weight of impurity in sample (µg):	25.58	1.18	26,76
	Maximum corrected weight of impurity in sample (µg):	25.83	1.42	27.25
	Measured concentration of impurity in sample (µg/ml):	1.74E-01	1.65E-03	V
	Uncorrected weight of impurity in sample (µg):	7.66	0.08	7.74
v	Weight of impurity in blank (µg):	0.02	< 0.01	7.74
				the same of the sa
	Minimum corrected weight of impurity in sample (µg):	7.64	0.08	7.71

18063-012	THE WAY AND THE PARTY OF THE PA
4.17E-04	
4.17E-05	
8.34E-09	N
8.77E-10	
2.12E-05	
2.24E-06	
1.91E-02	
0.38	N
0.15	
0.23	
0.23	
< 2.91E-03	
< 0.06	N
0.04	The second secon
0.00	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
0.01	
< 4.92E-04	
< 0.01	N
0.01	THE RESERVE OF THE PERSON NAMED IN
0.00	
0.00	TO A SECTION OF SECTIO
< 3.52E-05	
< 0.00	N
< 0.00	Name of the last o
0.00	
0.00	
< 7.40E-03	
< 0.15	N
	IV
< 0.11 0.00	
0.15	
< 3.33E-01	
< 6.66	N
< 5.00	
0.00	
6.66	
3.18E-02	
0.64	N
1.09	一名作品中国的大学的
0.00	
0.00	
< 5.29E-03	
< 0.11	N
< 0.08	
0.00	THE RESERVE OF THE PARTY OF THE
0.11	
3.18E-04	AND DESCRIPTION OF THE PARTY OF
0.01	N
< 0.00	
0.00	
0.01	

Include if > 10% of 2nd leach

Water rinse W18010802 20.0

FCM checked the data against the Official Results of Analyses report for RMAL18063 on 2/7/2018.

Fied C. Montgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1223, 1309, 1319, 1800, 1805
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	Ī	First Leach	Second Leach	Total
	Post-burn leach solution ID:	B18010403	B18010803	Total
	Total volume of leach solution (ml):	45.0	49.8	
Paralle 1	Total Folding of Teach Solution (IIII):	45.0	45.0	
	Radiochemical laboratory analysis number:	18063-003	18063-008	
	Measured uranium concentration (µg/ml):	1.13E+00	1.83E-03	
	Uncertainty in uranium concentration (µg/ml):	1.13E-01	1.83E-04	
	Weight uranium leached (g):	5.09E-05	9.11E-08	5.09E-05
	Uncertainty in weight uranium leached (g):	5.14E-06	9.19E-09	5.14E-06
	Equivalent number of leached kernels:	1.29E-01	2.31E-04	1.29E-01
	Uncertainty in equivalent number of leached kernels:	1.31E-02	2.34E-05	1.31E-02
100				
	Measured concentration of impurity in sample (µg/ml):	4.25E+00	7.14E-02	Fe
	Uncorrected weight of impurity in sample (µg):	191.25	3.56	195.32
Fe	Weight of impurity in blank (µg):	1.06	0.73	-700-100-1
	Minimum corrected weight of impurity in sample (µg):	190.19	2.83	193,39
	Maximum corrected weight of impurity in sample (µg):	190.19	2,83	193,39
155	Measured concentration of impurity in sample (µg/ml):	7.43E-03	< 2.91E-03	Cr
	Uncorrected weight of impurity in sample (µg):	0.33	< 0.14	< 0.48
Cr	Weight of impurity in blank (µg):	0.16	0.20	
	Minimum corrected weight of impurity in sample (µg):	0.17	0.00	0.17
	Maximum corrected weight of impurity in sample (µg):	0.17	0.00	0.17
	Measured concentration of impurity in sample (µg/ml):	4.44E-03	4.97E-04	Mn
	Uncorrected weight of impurity in sample (µg):	0.20	0.02	0.22
Mn	Weight of impurity in blank (µg):	0.04	0.04	a veter
	Minimum corrected weight of impurity in sample (µg):	0.16	0.00	0.16
	Maximum corrected weight of impurity in sample (µg):	0.16	0.00	0.16
	Measured concentration of impurity in sample (µg/ml):	2.68E-03	8.72E-05	Co
	Uncorrected weight of impurity in sample (µg):	0.12	0.00	0.12
Co	Weight of impurity in blank (µg):	0.00	0.00	
	Minimum corrected weight of impurity in sample (µg):	0.12	0.00	0.12
	Maximum corrected weight of impurity in sample (µg):	0.12	0.00	0.12
	Measured concentration of impurity in sample (µg/ml):	5.17E-02	3.90E-02	Ni
	Uncorrected weight of impurity in sample (μg):	2.33	1.94	4.27
Ni	Weight of impurity in blank (μg):	< 0.35	< 0.34	
- 3	Minimum corrected weight of impurity in sample (μg):	1.98	1.60	3.58
	Maximum corrected weight of impurity in sample (μg):	2.33	1.94	4.27
- 31	Measured concentration of impurity in sample (µg/ml):	1.11E+00	< 3.33E-01	Ca
	Uncorrected weight of impurity in sample (μg):	49.95	<16.58	<66.53
Ca	Weight of impurity in blank (μg):	<15.65	16.77	
-	Minimum corrected weight of impurity in sample (μg):	34.30	0.00	34.30
	Maximum corrected weight of impurity in sample (μg):	49.95	0.00	49.95
	Measured concentration of impurity in sample (µg/ml):	8.76E-01	1.46E-01	Al
	Uncorrected weight of impurity in sample (μg):	39.42	7.27	46.69
Al	Weight of impurity in blank (µg):	5.88	11.46	
	Minimum corrected weight of impurity in sample (μg):	33.55	0.00	33.55
_	Maximum corrected weight of impurity in sample (μg):	33.55	0.00	33.55
	Measured concentration of impurity in sample (µg/ml):	4.58E-01	3.94E-02	Ti
Ti	Uncorrected weight of impurity in sample (µg):	20.61	1.96	22.57
"	Weight of impurity in blank (µg):	< 0.25	< 0.24	22.00
137	Minimum corrected weight of impurity in sample (µg):	20.36	1.72	22.08
	Maximum corrected weight of impurity in sample (µg):	20.61	1.96	22.57
	Measured concentration of impurity in sample (µg/ml):	1.40E-01	8.34E-04	V
v	Uncorrected weight of impurity in sample (µg):	6.30	0.04	6.34
v	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):	0.02 6.28	< 0.01	6.22
1			0.04	6.32
	Maximum corrected weight of impurity in sample (µg):	6.28	0.04	6.32

Water rinse	Include if > 10% of 2nd leach
W18010803	
19.0	
19.0	STATE OF THE PARTY
18063-013	
3.71E-04	
3.71E-05	
7.05E-09	N
7.45E-10	
1.79E-05	
1.90E-06	
1.30L 00	
2.71E-02	
0.51	Y
0.15	Control of the Contro
0.37	
0.37	
< 2.91E-03	THE RESERVE TO SERVE THE PARTY OF THE PARTY
< 0.06	N
0.04	CONTRACTOR OF THE CONTRACTOR O
0.00	
0.01	
< 4.92E-04	
< 0.01	N
0.01	
0.00	
0.00	
< 3.52E-05	
< 0.00	N
< 0.00	
0.00	
0.00	
< 7.40E-03	
< 0.14	N
< 0.11	
0.00	
0.14	
< 3.33E-01	
< 6.33	N
< 5.00	THE RESERVE TO SERVE
0.00	The state of the s
6.33	of the state of th
2.67E-02	100 100 100 100 100 100 100 100 100 100
0.51	N
1.09	
0.00	The second second second
0.00	
< 5.29E-03	The second second second
< 0.10	N
< 0.08	
0.00	
0.10	AND SELECTION OF THE PARTY OF T
< 1.33E-04	
< 0.00	N
< 0.00	
0.00	AND THE RESERVE OF THE PARTY OF
0.00	

FCM checked the data against the Official Results of Analyses report for RMAL18063 on 2/7/2018.

Fred C. Montgomey 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1221, 1240, 1243, 1266, 1316
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

ı	Number of compacts:	5
ı	Average weight uranium per particle, mean value (g):	3.94E-04
ı	Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
-	Post-burn leach solution ID:	B18010404	B18010804	
Total volume of leach solution (ml):		44.0	39.5	
10tal Volano di Jedan Soldion (III) 1 11.0 33.5				
Radiochemical laboratory analysis number:		18063-004	18063-009	
Measured uranium concentration (µg/ml):		1.12E-01	3.93E-03	
	Uncertainty in uranium concentration (µg/ml):	1.12E-02	3.93E-04	
D11	Weight uranium leached (g):	4.93E-06	1,55E-07	5.08E-06
11	Uncertainty in weight uranium leached (g):	4.98E-07	1.57E-08	4.98E-07
	Equivalent number of leached kernels:	1.25E-02	3.94E-04	1.29E-02
1000	Uncertainty in equivalent number of leached kernels:	1.27E-03	4.01E-05	1.27E-03
1000				THE PERSON NAMED IN
	Measured concentration of impurity in sample (µg/ml):	4.62E+00	8.16E-02	Fe
	Uncorrected weight of impurity in sample (µg):	203,28	3.22	207.04
Fe	Weight of impurity in blank (µg):	1.06	0.73	
	Minimum corrected weight of impurity in sample (µg):	202.22	2.49	205.11
	Maximum corrected weight of impurity in sample (µg):	202.22	2.49	205.11
-	Measured concentration of impurity in sample (µg/ml):	6.84E-03	3.55E-03	Cr
	Uncorrected weight of impurity in sample (µg):	0.30	0.14	0.44
Cr	Weight of impurity in blank (µg):	0.16	0.20	
	Minimum corrected weight of impurity in sample (µg):	0.14	0.00	0.14
	Maximum corrected weight of impurity in sample (µg):	0.14	0.00	0.14
	Measured concentration of impurity in sample (μg/ml):	4.67E-03	6.89E-04	Mn
	Uncorrected weight of impurity in sample (µg):	0.21	0.03	0.25
Mn	Weight of impurity in blank (µg):	0.04	0.04	
	Minimum corrected weight of impurity in sample (µg):	0.16	0.00	0.17
	Maximum corrected weight of impurity in sample (µg):	0.16	0.00	0.17
	Measured concentration of impurity in sample (μg/ml):	3.05E-03	1.11E-04	Co
	Uncorrected weight of impurity in sample (µg):	0.13	0.00	0.14
Co	Weight of impurity in blank (µg):	0.00	0.00	
De F	Minimum corrected weight of impurity in sample (µg):	0.13	0.00	0.13
	Maximum corrected weight of impurity in sample (µg):	0.13	0.00	0.13
	Measured concentration of impurity in sample (μg/ml):	6.41E-02	1.29E-02	Ni
	Uncorrected weight of impurity in sample (µg):	2.82	0.51	4.21
Ni	Weight of impurity in blank (µg):	< 0.35	< 0.34	
	Minimum corrected weight of impurity in sample (μg):	2.47	0.17	3.41
	Maximum corrected weight of impurity in sample (μg):	2.82	0.51	4.21
-	Measured concentration of impurity in sample (µg/ml):	1.64E+00	< 3.33E-01	Ca
Ca	Uncorrected weight of impurity in sample (µg):	72.16	<13.15	<85.31
Ca	Weight of impurity in blank (µg):	<15.65	16.77	F.C. F.4
8-37	Minimum corrected weight of impurity in sample (µg):	56.51	0.00	56.51
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):	72.16 2.11E+00	0.00 2.42E-01	72.16 Al
	Uncorrected weight of impurity in sample (µg):	92.84	9.56	107.10
AI	Weight of impurity in blank (µg):	5.88	11.46	107.10
~	Minimum corrected weight of impurity in sample (µg):	86.97	0.00	90.58
-	Maximum corrected weight of impurity in sample (µg):	86.97	0.00	90.58
	Measured concentration of impurity in sample (µg/ml):	5.39E-01	3.67E-02	90.58 Ti
225	Uncorrected weight of impurity in sample (µg):	23.72	1.45	25.17
Ti	Weight of impurity in blank (μq):	< 0.25	< 0.24	23.1/
	Minimum corrected weight of impurity in sample (µg):	23.47	1.21	24.67
130	Maximum corrected weight of impurity in sample (µg):	23.72	1.45	25.17
	Measured concentration of impurity in sample (µg/ml):	1.61E-01	2.43E-03	V
1	Uncorrected weight of impurity in sample (µg):	7.08	0.10	7.18
	Weight of impurity in blank (µg):	0.02	< 0.01	7.10
V				
V	Minimum corrected weight of impurity in sample (µg):	7.06	0.09	7.15

Water rinse	Include if > 10% of 2nd leach
W18010804	THE RESERVE OF THE PARTY OF
21.0	
1 TO SEE SEE	
18063-014	
1.44E-03	
1.44E-04	
3.02E-08	N
3.17E-09	
7.68E-05	
8.07E-06	
0.545.00	
2.56E-02	The second second
0.54	Y
0.15	
0.39	
0.39	
< 2.91E-03	N. Control of the Con
< 0.06 0.04	N
0.04	
0.00	
9.36E-04	
0.02	Y
0.01	DEFECT OF THE PARTY OF THE PART
0.01	
0.01	
< 3.52E-05	
< 0.00	N
< 0.00	
0.00	
0.00	
4.19E-02	
0.88	Υ
< 0.11	
0.77	
0.88	
< 3.33E-01	The Court of the C
< 6.99	N
< 5.00	
0.00	
6.99	
2.24E-01	The state of the s
4.70	Υ
1.09	
3.61 3.61	
< 5.29E-03	
< 0.11	N
< 0.11	AND THE RESERVE OF THE PARTY OF
0.00	
0.11	
1.83E-04	
0.00	N
< 0.00	
0.00	

FCM checked the data against the Official Results of Analyses report for RMAL18063 on 2/7/2018.

Field C. Montgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	Post-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 1_DRF26R3.xls

Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
= 2.8	Post-burn leach solution ID:	B18010405	B18010805	
	Total volume of leach solution (ml):	47.0	46.2	
	Radiochemical laboratory analysis number:	18063-005	18063-010	
	Measured uranium concentration (µg/ml):	2.34E-04	4.60E-05	
	Uncertainty in uranium concentration (µg/ml):	2.34E-05	4.60E-06	A STATE OF THE STA
	Weight uranium leached (g):	1.10E-08	2.13E-09	1.31E-08
STEEL STREET	Uncertainty in weight uranium leached (g):	1.11E-09	2.15E-10	1.13E-09
	Equivalent number of leached kernels:	2.79E-05	5.39E-06	3.33E-05
	Uncertainty in equivalent number of leached kernels:	2.83E-06	5.47E-07	2.89E-06
Fe	Measured concentration (µg/ml):	2.25E-02	1.58E-02	Fe
16	Total weight of leached impurity (μg):	1.06	0.73	1.94
Cr	Measured concentration (µg/ml):	3.43E-03	4.37E-03	Cr
Ci	Total weight of leached impurity (μg):	0.16	0.20	0.41
Mn	Measured concentration (µg/ml):	8.64E-04	8.60E-04	Mn
Patt	Total weight of leached impurity (μg):	0.04	0.04	0.09
Co	Measured concentration (µg/ml):	7.76E-05	6.56E-05	Co
CO	Total weight of leached impurity (μg):	0.00	0.00	0.01
Ni	Measured concentration (µg/ml):	< 7.40E-03	< 7.40E-03	Ni
141	Total weight of leached impurity (µg):	< 0.35	< 0.34	< 0.69
Ca	Measured concentration (µg/ml):	< 3.33E-01	3.63E-01	Ca
Ca	Total weight of leached impurity (μg):	<15.65	16.77	<32.42
AI	Measured concentration (µg/ml):	1.25E-01	2.48E-01	Al
AI	Total weight of leached impurity (µg):	5.88	11.46	17.33
Ti	Measured concentration (µg/ml):	< 5.29E-03	< 5.29E-03	Ti
	Total weight of leached impurity (µg):	< 0.25	< 0.24	< 0.49
V	Measured concentration (μg/ml):	4.18E-04	< 1.33E-04	V
	Total weight of leached impurity (μg):	0.02	< 0.01	< 0.03

Comments

FCM checked the data against the Official Results of Analyses report for RMAL18063 on 2/7/2018.

Fied C. montgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1233, 1254, 1287, 1291, 1821
DRF filename:	\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3,94E-06

	erage reight dramam per particle, discreditty in mean (g).			
	Γ	First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L18011701	L18011901	
	Total volume of leach solution (ml):	115.0	96.0	1
200		11510	30.0	
	Radiochemical laboratory analysis number:	18062-001	18062-006	15 4 15 15
	Measured uranium concentration (µg/ml):	1.41E-01	1.95E-02	75.00
THE STATE OF	Uncertainty in uranium concentration (µg/ml):	1.41E-02	1.95E-03	
	Weight uranium leached (g):	1.62E-05	1.87E-06	1.81E-05
	Uncertainty in weight uranium leached (g):	1.62E-06	1.88E-07	1.63E-06
	Equivalent number of leached kernels:	4.12E-02	4.75E-03	4.59E-02
	Uncertainty in equivalent number of leached kernels:	4.14E-03	4.79E-04	4.17E-03
THE REAL PROPERTY.	Measured concentration of impurity in sample (µg/ml):			Fe
1	Uncorrected weight of impurity in sample (µg):	CONTRACTOR OF THE PARTY OF THE		16
Fe	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			-
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
7.38	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			The same of the sa
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
Co	Uncorrected weight of impurity in sample (µg):			-
CO	Weight of impurity in blank (μg): Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			- 10
Ni	Weight of impurity in blank (µg):			THE RESERVE TO THE
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
120	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):		REAL RESERVE	
	Maximum corrected weight of impurity in sample (μg):		HILL STREET	
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (μg):			ALC: NO PERSONAL PROPERTY.
Title	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
Ti	Measured concentration of impurity in sample (μg/ml): Uncorrected weight of impurity in sample (μg):		The Person of th	Ti
	Weight of impurity in sample (µg): Weight of impurity in blank (µg):			AND DESCRIPTION OF THE PERSON NAMED IN
	Minimum corrected weight of impurity in sample (µg):			
1	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (µg):			Section of the last
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	, , , , , , , , , , , , , , , , , , , ,			

10/	Tool of 10 - 4001 - 6 D - 11
Water rinse	Include if > 10% of 2nd leach
W18011901	
88.2	
18062-011	
3.42E-03	
3.42E-04	
3.42E-04 3.02E-07	N
3.02E-08	AND DESCRIPTION OF THE PARTY OF
7.66E-04	
7.71E-05	
7.71L-03	
	TANKS OF THE SECOND STATE
	THE RESERVE OF THE PERSON NAMED IN COLUMN
100000000000000000000000000000000000000	
No. of Concession, Name of Street, or other Designation, Name of Street, Name	
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	The state of the s
ALC: N	
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FCM checked the data against the official Results of Analyses report for RMAL18062 on 2/07/2018.

Fred C. Montgomery 2-8-2018
Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1236, 1305, 1321, 1807, 1808
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3 94F-06

714	erage weight dramam per particle, uncertainty in mean (g):		3.94E-00	
		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L18011702	L18011902	
400	Total volume of leach solution (ml):	122.0	96.0	
1050		The state of the		
	Radiochemical laboratory analysis number:	18062-002	18062-007	
	Measured uranium concentration (µg/ml):	2.81E+00	2.58E-01	
	Uncertainty in uranium concentration (µg/ml):	2.81E-01	2.58E-02	2717.01
	Weight uranium leached (g): Uncertainty in weight uranium leached (g):	3.43E-04	2.48E-05 2.48E-06	3.74E-04
	Equivalent number of leached kernels:	3.43E-05 8.70E-01	6.29E-02	3.44E-05 9.49E-01
	Uncertainty in equivalent number of leached kernels:	8.76E-02	6.29E-02 6.33E-03	8.79E-02
900		OITOL OF	O.DOL OD	0.732 02
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (μg):			
Cr	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
-	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
Mn	Uncorrected weight of impurity in sample (μg):			-
МП	Weight of impurity in blank (μg): Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			Co
Co	Weight of impurity in blank (µg):			STATE OF THE PARTY
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
1.71	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (μg):			1000
-	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (μg/ml):			Ca
	Uncorrected weight of impurity in sample (μg):			
Ca	Weight of impurity in blank (μg):			
L.A.	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):	Charles To San		
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):			Al
AI	Weight of impurity in sample (µg): Weight of impurity in blank (µg):			THE RESERVE OF THE PARTY OF THE
~"	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
٧	Weight of impurity in blank (µg):			
-	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):		PER BERNA	

Water rinse	Include if > 10% of 2nd leach
W18011902	
71.5	
18062-012	
8.59E-02	
8.59E-02 8.59E-03 6.14E-06	
6.14E-06	Y
6.17E-07 1.56E-02	
1.57E-03	
1.572 05	
	Married Married Bull Control
	SHEET AND THE SHEET SHEET SHEET
No. of Street	
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No. of London	

FCM checked the data against the official Results of Analyses report for RMAL18062 on 2/07/2018.

Fud C. Morrtgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1257, 1258, 1285, 1298, 1324
DRF filename:	\\mc-agr\AGR\ eachBurn each\14156C&D-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
1-17	Pre-burn leach solution ID:	L18011703	L18011903	
	Total volume of leach solution (ml):	118.0	94.0	
	Radiochemical laboratory analysis number:	18062-003	18062-008	
200	Measured uranium concentration (µg/ml):	9.39E-02	1.24E-02	
	Uncertainty in uranium concentration (µg/ml):	9.39E-03	1.24E-03	
	Weight uranium leached (g):	1.11E-05	1.17E-06	1.22E-05
	Uncertainty in weight uranium leached (g):	1.11E-06	1.17E-07	1.12E-06
	Equivalent number of leached kernels:	2.81E-02	2.96E-03	3.11E-02
	Uncertainty in equivalent number of leached kernels:	2.83E-03	2.98E-04	2.85E-03
1000000	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			re
Fe	Weight of impurity in sample (µg):			STATE OF THE PARTY OF
'	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			STATE OF STREET
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
1500	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (μg):			
Mn	Weight of impurity in blank (μg):		Alexander Sales	The said of the said
-	Minimum corrected weight of impurity in sample (μg):			
- 1	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (μg):			
Co	Weight of impurity in blank (μg):			
-52	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
10.5	Measured concentration of impurity in sample (μg/ml): Uncorrected weight of impurity in sample (μg):	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ni
Ni	Weight of impurity in sample (µg):			THE RESERVE AND ADDRESS OF THE PARTY OF THE
	Minimum corrected weight of impurity in sample (µq):			
- 34	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
133	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):			THE PARTY OF THE P
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			-1-5-10-10-10
1100	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):		NOTE OF THE PARTY.	No. of the last of
- P. E.	Maximum corrected weight of impurity in sample (μg):			
Ti	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (μg):			
	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
-	Measured concentration of impurity in sample (µg/ml):			V
v	Uncorrected weight of impurity in sample (µg): Weight of impurity in blank (µg):			AND DESCRIPTION OF THE PARTY OF
	Minimum corrected weight of impurity in sample (µg):			1
200	Maximum corrected weight of impurity in sample (µg):			
	. in sample (pg).			

Water rinse	Include if >	10% of 2nd leach
W18011903	Commence of the Commence of th	
70.0		
	The second	
18062-013		
2.55E-03		
2.55F-04		
1.79F-07		N
1.79E-08 4.53E-04		
4.53E-04		
4.57E-05	Total Control	
	STATE OF THE PARTY OF	
	VI THE	
	THE PERSON NAMED IN	
	THE STEEL	
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	A (25%) 244	
17 1 1 1 1 1 1	- THE PARTY NAMED IN	
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	A CHARLES	
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	AND DESCRIPTION OF THE PERSON NAMED IN	
		THE RESERVED
		STATE OF THE PARTY
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FCM checked the data against the official Results of Analyses report for RMAL18062 on 2/07/2018.

Ful c. Montgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1277, 1279, 1314, 1812, 1828
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2_DRF26R3,xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L18011704	L18011904	
2 3	Total volume of leach solution (ml):	109.0	104.0	
		The second second	THE PARTY NAMED IN	
1-15	Radiochemical laboratory analysis number:	18062-004	18062-009	SATURE THE
	Measured uranium concentration (µg/ml):	1.14E-01	2.19E-02	
	Uncertainty in uranium concentration (µg/ml):	1.14E-02	2.19E-03	
A	Weight uranium leached (g):	1.24E-05	2.28E-06	1.47E-05
	Uncertainty in weight uranium leached (g):	1.24E-06	2.28E-07	1.27E-06
	Equivalent number of leached kernels:	3.15E-02	5.78E-03	3.73E-02
	Uncertainty in equivalent number of leached kernels:	3.18E-03	5.82E-04	3.23E-03
1951				
	Measured concentration of impurity in sample (µg/ml):		The state of	Fe
	Uncorrected weight of impurity in sample (μg):			
Fe	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
1 1	Maximum corrected weight of impurity in sample (μg):			
1	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (μg):			
Cr	Weight of impurity in blank (µg):			THE PERSON NAMED IN
-	Minimum corrected weight of impurity in sample (μg):			
-	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
Mn	Uncorrected weight of impurity in sample (µg):			
MI	Weight of impurity in blank (µg):			USE THE PARTY
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
Co	Uncorrected weight of impurity in sample (µg):			
-	Weight of impurity in blank (μg): Minimum corrected weight of impurity in sample (μg):			
- XI	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			NI
Ni	Weight of impurity in sample (µg):			THE RESERVE AND PERSONS NAMED IN
	Minimum corrected weight of impurity in sample (µg):			Charles of the late of the
133	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
-34	Uncorrected weight of impurity in sample (µg):			Ca
Ca	Weight of impurity in blank (µg):			STATE OF THE PARTY OF
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
35	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
AI	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (μg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µg):			
- 22	Minimum corrected weight of impurity in sample (μg):			TOWN STATE OF THE
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (µg):			THE STATE OF THE
1.3	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			

Water rinse	Include if > 10% of 2nd leach
W18011904	
73.2	
10050 01	
18062-014	
4.60E-03 4.60E-04	
4.00E-04	N
3.37E-07 3.38E-08	The second secon
8.55E-04	
8.62E-05	
1-7-2-76-12 -	
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	CONTRACTOR SERVICE

FCM checked the data against the official Results of Analyses report for RMAL18062 on 2/07/2018.

Fied c. Montgomey 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	Pre-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3.xls

_		
	Average weight uranium per particle, mean value (g):	3.94E-04
1	Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	-			
		First Leach	Second Leach	Total
1	Pre-burn leach solution ID:	L18011705	L18011905	
	Total volume of leach solution (ml):	150.0	100.0	
	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个			
	Radiochemical laboratory analysis number:	18062-005	18062-010	
	Measured uranium concentration (μg/ml):	1.61E-04	1.00E-04	
	Uncertainty in uranium concentration (µg/ml):	1.61E-05	1.00E-05	
	Weight uranium leached (g):	2.42E-08	1.00E-08	3.42E-08
it into	Uncertainty in weight uranium leached (g):	2.42E-09	1.00E-09	2.62E-09
	Equivalent number of leached kernels:	6.13E-05	2.54E-05	8.67E-05
100	Uncertainty in equivalent number of leached kernels:	6.17E-06	2.56E-06	6.70E-06
Fe	Measured concentration (µg/ml):			Fe
	Total weight of leached impurity (μg):			
Cr	Measured concentration (μg/ml):		The state of the state of	Cr
Ci	Total weight of leached impurity (µg):			
Mn	Measured concentration (μg/ml):			Mn
	Total weight of leached impurity (μg):			
Co	Measured concentration (μg/ml):			Co
	Total weight of leached impurity (μg):			Hugara Ta
Ni	Measured concentration (μg/ml):			Ni
	Total weight of leached impurity (μg):			
Ca	Measured concentration (μg/ml):			Ca
ou	Total weight of leached impurity (μg):			
AI	Measured concentration (μg/ml):			Al
	Total weight of leached impurity (μg):			
Ti	Measured concentration (μg/ml):			Ti
	Total weight of leached impurity (μg):			
V	Measured concentration (μg/ml):			V
1	Total weight of leached impurity (µg):			

Comments

CM checked the data against the official Res	s of Analyses report for RMAL18062 on 2/07/201
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Field c. Muritgomery 2-8-2018

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Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
	B&W J52R-16-14156C and B&W J52R-16-14156D
	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1233, 1254, 1287, 1291, 1821 \\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	-			
		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B18012901	B18013001	
	Total volume of leach solution (ml):	45.2	48.0	
1			Charles of the last of the las	图 500 1000
	Radiochemical laboratory analysis number:	18079-001	18079-006	
5.2	Measured uranium concentration (μg/ml):	1.02E+01	4.53E-02	
	Uncertainty in uranium concentration (µg/ml):	1.02E+00	4.53E-03	
	Weight uranium leached (g):	4.61E-04	2.17E-06	4.63E-04
	Uncertainty in weight uranium leached (g):	4.66E-05	2.19E-07	4.66E-05
	Equivalent number of leached kernels:	1.17E+00	5.52E-03	1.18E+00
	Uncertainty in equivalent number of leached kernels:	1.19E-01	5.60E-04	1.19E-01
-50		The second second		
- 57	Measured concentration of impurity in sample (µg/ml):			Fe
-	Uncorrected weight of impurity in sample (μg):			
Fe	Weight of impurity in blank (μg):			The state of the s
100	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
100	Measured concentration of impurity in sample (µg/ml):			Cr
_	Uncorrected weight of impurity in sample (μg):			
Cr	Weight of impurity in blank (μg):			THE PARTY OF THE
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
100	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (μg):			
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			May Provide
4000	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
200	Maximum corrected weight of impurity in sample (μg):			
6.25	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (μg):			
Ni	Weight of impurity in blank (μg):			
41.35	Minimum corrected weight of impurity in sample (μg):		all the second	
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (μg):			
Ca	Weight of impurity in blank (μg):			
5 - 5	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
4,175	Measured concentration of impurity in sample (µg/ml):			Al
AI	Uncorrected weight of impurity in sample (µg):			
Ai	Weight of impurity in blank (μg):			CONTRACTOR OF STREET
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			The state of the s
	Weight of impurity in blank (μg):			THE RESIDENCE OF THE PARTY OF T
70	Minimum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
-				V
30	Measured concentration of impurity in sample (µg/ml):			V
v	Uncorrected weight of impurity in sample (µg):			The same of the sa
V	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			The state of the s
1,10	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Plaximum corrected weight of impunity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
W18013001	
50.0	
THE STATE OF STREET	
18079-011	
4.27E-03	
4.27E-04	
2.14E-07	N
2.15E-08	
5.42E-04	
5.49E-05	
	The second second
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FCM checked the data against the official Results of Analyses report for RMAL18079 on 2/07/2018.

Fuel C. Muntgowley 2-8-2018

Operator Date

	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1236, 1305, 1321, 1807, 1808
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3,xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	T .	First Leach	Second Leach	Total
	Dook hum loook colution ID.			Total
	Post-burn leach solution ID:	B18012902	B18013002	
Name and Address of the Owner, where	Total volume of leach solution (ml):	45.0	47.8	
	Radiochemical laboratory analysis number:	10070 003	10070.007	
	Measured uranium concentration (µg/ml):	18079-002 1.89E+01	18079-007	
	Uncertainty in uranium concentration (µg/ml):	1.89E+01	4.82E-02	
	Weight uranium leached (q):	8.51E-04	4.82E-03	0.525.04
-	Uncertainty in weight uranium leached (g):	8.59E-05	2.30E-06 2.33E-07	8.53E-04 8.59E-05
_	Equivalent number of leached kernels:	2.16E+00	5.85E-03	
	Uncertainty in equivalent number of leached kernels:	2.19E-01	5.85E-03 5.93E-04	2.16E+00 2.19E-01
- COLORS	Oncertainty in equivalent number of leached kernels.	2.190-01	3.93E-04	2.19E-01
-	Measured concentration of impurity in sample (µg/ml):	-		Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			THE PERSON NAMED IN
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):		THE RESERVE OF THE PERSON NAMED IN	- CI
Cr	Weight of impurity in blank (µg):		The second	AND RESIDENCE OF THE PARTY OF T
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):		And the second second	
100	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):			AND DESCRIPTION OF THE PARTY OF
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
5.5	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (µg):		TO SECURE A	
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
- 53	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Al
12.5	Uncorrected weight of impurity in sample (μg):			Hartistan Hart
Al	Weight of impurity in blank (µg):			
504	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (μg):			
Ti	Weight of impurity in blank (µg):			
380	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):	II was not been a		V
	Uncorrected weight of impurity in sample (µg):			
٧	Weight of impurity in blank (μg):			The way
	Minimum corrected weight of impurity in sample (µg):			
-	Maximum corrected weight of impurity in sample (μg):			

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FCM checked the data against the official Results of Analyses report for RMAL18079 on 2/07/2018.

Ful C. Montgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1257, 1258, 1285, 1298, 1324
DRF filename:	\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3 94F-06

	r			
		First Leach	Second Leach	Total
- PA	Post-burn leach solution ID:	B18012903	B18013003	
	Total volume of leach solution (ml):	46.0	48.8	SE COL
	Radiochemical laboratory analysis number:	18079-003	18079-008	
	Measured uranium concentration (µg/ml):	1.24E-01	5.42E-03	
- 5-5-2	Uncertainty in uranium concentration (µg/ml):	1.24E-02	5.42E-04	
	Weight uranium leached (g):	5.70E-06	2.64E-07	5.97E-06
	Uncertainty in weight uranium leached (g):	5.76E-07	2.67E-08	5.77E-07
	Equivalent number of leached kernels:	1.45E-02	6.71E-04	1.51E-02
Name and Address of the Owner, where the Owner, which is the Own	Uncertainty in equivalent number of leached kernels:	1.47E-03	6.81E-05	1.47E-03
	Measured concentration of impurity in sample (µg/ml):			
	Uncorrected weight of impurity in sample (µg):			Fe
Fe	Weight of impurity in sample (µg):			NAME OF TAXABLE PARTY.
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):		The second second	Cr
Cr	Weight of impurity in blank (µg):			TO STATE OF LAND
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
THE RES	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			- 1.01
Mn	Weight of impurity in blank (µg):			The Park Street
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg);		- 7 - 7 - 7 - 7	
Co	Weight of impurity in blank (µg):			STATE OF THE PARTY.
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):	ALCOHOLD THE R		
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):	W. Carlotte		
Ni	Weight of impurity in blank (µg):			The state of the s
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
15.0	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
Mary and	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (μg):			
Al	Weight of impurity in blank (μg):			PC PEN DE
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			-
200	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µq):			AND DESCRIPTION OF PERSONS
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg/mi):			V
v	Weight of impurity in blank (µg):	THE RESERVE OF THE PERSON NAMED IN		THE PERSON NAMED IN
	Minimum corrected weight of impurity in sample (µg):			
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Water rinse	Include if > 10% of 2nd leach
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FCM checked the data against the official Results of Analyses report for RMAL18079 on 2/07/2018.

Ful C. Montgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	1277, 1279, 1314, 1812, 1828
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B18012904	B18013004	
	Total volume of leach solution (ml):	46.9	47.0	
100			THE RESERVE TO SERVE THE PARTY.	
	Radiochemical laboratory analysis number:	18079-004	18079-009	
	Measured uranium concentration (µg/ml):	1.13E-01	2.17E-02	
	Uncertainty in uranium concentration (µg/ml):	1.13E-02	2.17E-03	
	Weight uranium leached (g):	5.30E-06	1.02E-06	6.32E-06
	Uncertainty in weight uranium leached (g):	5.35E-07	1.03E-07	5.45E-07
	Equivalent number of leached kernels:	1.35E-02	2.59E-03	1.60E-02
	Uncertainty in equivalent number of leached kernels:	1.36E-03	2.63E-04	1.39E-03
		The state of	ACCOUNT OF THE PARTY OF	
	Measured concentration of impurity in sample (µg/ml):			Fe
200	Uncorrected weight of impurity in sample (μg):			
Fe	Weight of impurity in blank (μg):			and the same of
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):	1 3 3 . 12		
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):	PALT TO THE		
	Maximum corrected weight of impurity in sample (µg):		The state of the s	
	Measured concentration of impurity in sample (µg/ml):	I ALL POLL		Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):			
. Big	Minimum corrected weight of impurity in sample (µg):			
16-10	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (μg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			1374
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):			S. M. S. Carry
-40	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
7.3	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (μg):			
Al	Weight of impurity in blank (µg):			The state of the s
100	Minimum corrected weight of impurity in sample (μg):			
- 10	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µg):			
10.2	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
HP.	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
٧	Weight of impurity in blank (µg):		THE PARTY NAMED IN	
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
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18079-014	
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8.79E-05	
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4.34E-09	
1.09E-04	
1.11E-05	
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FCM checked the data against the official Results of Analyses report for RMAL18079 on 2/07/2018.

Fuel c. Montgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
	B&W J52R-16-14156C and B&W J52R-16-14156D
Compact lot description:	AGR-5/6/7 compacts, 25% packing fraction
Compact ID numbers:	Post-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14156C&D-Group 2 DRF26R3.xls

Average weight uranium per particle, mean value (q):	3.94E-04
Average weight uranium per particle, uncertainty in mean (q):	

		First Leach	Second Leach	Total
100	Post-burn leach solution ID:	B18012905	B18013005	A ALLEN STATE
	Total volume of leach solution (ml):	48.8	48.0	
19 - 21	Radiochemical laboratory analysis number:	18079-005	18079-010	
	Measured uranium concentration (μg/ml):	3.14E-04	1.88E-04	
	Uncertainty in uranium concentration (µg/ml):	3.14E-05	1.88E-05	
	Weight uranium leached (g):	1.53E-08	9.02E-09	2.43E-08
	Uncertainty in weight uranium leached (g):	1.55E-09	9.11E-10	1.79E-09
	Equivalent number of leached kernels:	3.89E-05	2.29E-05	6.18E-05
100	Uncertainty in equivalent number of leached kernels:	3.94E-06	2.32E-06	4.60E-06
			A STATE OF THE STA	
Fe	Measured concentration (μg/ml):			Fe
	Total weight of leached impurity (μg):			
Cr	Measured concentration (μg/ml):			Cr
	Total weight of leached impurity (μg):			
Mn	Measured concentration (μg/ml):			Mn
	Total weight of leached impurity (μg):			
Co	Measured concentration (µg/ml):			Co
-	Total weight of leached impurity (μg):			
Ni	Measured concentration (μg/ml):			Ni
	Total weight of leached impurity (μg):			
Ca	Measured concentration (μg/ml):			Ca
	Total weight of leached impurity (μg):			
AI	Measured concentration (μg/ml):	Charles to the second		Al
-1	Total weight of leached impurity (μg):	THE PARTY OF		
Ti	Measured concentration (μg/ml):			Ti
	Total weight of leached impurity (μg):			
V	Measured concentration (μg/ml):		BEER BEER BEER	V
	Total weight of leached impurity (μg):			

Comments

FCM	checked	the data	against the o	fficial Results of	Analyses report for	RMAL18079 on 2/07/2018.	

Fud C. Mintgomery

2-8-2018

APPENDIX B. Report Forms for 40% Packing Fraction Compacts

Inspection Report Form IRF-B: Summary of Impurites Outside SiC — Maximum Corrected Values

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction

	1021, 1042,	1004, 1016,	1006, 1057,	1002, 1036,		
Compact ID numbers:	1056, 1093,	1018, 1085,	1068, 1078,	1038, 1083,	Mean	Standard
	1105	1101	1107	1098		Deviation
Number of compacts:	5	5	5	5		
Iron						
Pre-burn leach (DRF-26A) (μg):	102.24	114.25	122.92	119.03		
Post-burn leach (DRF-26B) (µg):	117.31	117.96	155.01	114.58		
Total leached (µg):	219.55	232.21	277.93	233.61		
Fe outside SiC (µg/compact):	43.91	46.44	55.59	46.72	48.16	5.11
Chromium		To a series of the series				6 00 7 00
Pre-burn leach (DRF-26A) (μg):	1.47	1.92	3.99	2.02		
Post-burn leach (DRF-26B) (μg):	1.05	0.77	0.90	0.83		
Total leached (µg):	2.52	2.69	4.89	2.85		
Cr outside SiC (µg/compact):	0.50	0.54	0.98	0.57	0.65	0.22
Manganese						
Pre-burn leach (DRF-26A) (μg):	1.29	1.42	1.31	1.42		
Post-burn leach (DRF-26B) (μg):	0.45	0.31	0.33	0.37		
Total leached (μg):	1.75	1.73	1.64	1.78		
Mn outside SiC (µg/compact):	0.35	0.35	0.33	0.36	0.345	0.013
Cobalt			FILEE			- 124 - 12
Pre-burn leach (DRF-26A) (μg):	0.03	0.06	0.04	0.04		
Post-burn leach (DRF-26B) (μg):	0.05	0.06	0.08	0.05		
Total leached (μg):	0.09	0.11	0.12	0.09		
Co outside SiC (µg/compact):	0.017	0.023	0.025	0.018	0.021	0.004
Nickel					AN THE RESERVE	
Pre-burn leach (DRF-26A) (μg):	2.92	5.73	4.05	8.51		
Post-burn leach (DRF-26B) (μg):	2.85	2.57	3.38	2.75		
Total leached (μg):	5.77	8.30	7.43	11.25		
Ni outside SiC (µg/compact):	1.15	1.66	1.49	2.25	1.64	0.46
Transition Metals						
Cr+Mn+Co+Ni outside SiC (μg/compact):	2.03	2.57	2.82	3.20	2.65	0.49
Calcium		CO THE				
Pre-burn leach (DRF-26A) (μg):	532.64	567.86	491.77	489.92		
Post-burn leach (DRF-26B) (μg):	48.50	58.77	45.46	50.55		
Total leached (μg):	581.15	626.63	537.23	540.47		
Ca outside SiC (µg/compact):	116.23	125.33	107.45	108.09	114.27	8.38
Aluminum				A PLAN		A Same of the
Pre-burn leach (DRF-26A) (μg):	604.67	606.05	573.87	595.01		
Post-burn leach (DRF-26B) (μg):	87.93	63.66	66.78	81.06		
Total leached (μg):	692.59	669.71	640.65	676.07		
Al outside SiC (µg/compact):	138.52	133.94	128.13	135.21	133.95	4.33
Titanium	Line of the same of			KOZI (C. C.)		
Pre-burn leach (DRF-26A) (μg):	21.57	19.58	24.84	28.18		
Post-burn leach (DRF-26B) (μg):	29.17	26.65	22.17	21.10		
Total leached (μg):	50.74	46.23	47.01	49.28		
Ti outside SiC (µg/compact):	10.15	9.25	9.40	9.86	9.66	0.41
Vanadium		TO BELLEVIE				
Pre-burn leach (DRF-26A) (μg):	15.10	16.29	15.81	16.51		
Post-burn leach (DRF-26B) (μg):	13.02	11.04	11.55	11.38		
Total leached (μg):	28.13	27.33	27.36	27.90		
V outside SiC (µg/compact):	5.63	5.47	5.47	5.58	5.54	0.08
Titanium and Vanadium						
Ti + V outside SiC (μg/compact):	15.77	14.71	14.87	15.43	15.20	0.49

Comments

Data has been ve	erified.	A STATE OF	20.72	



Inspection Report Form IRF-C: Summary of Pre-burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction

Compact ID numbers:	1009, 1015, 1059, 1065, 1069	1013, 1026, 1029, 1066, 1071	1054, 1062, 1089, 1096, 1097	1023, 1040, 1048, 1084, 1088	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	2.1E+00	3.1E+00	2.0E+00	2.7E+00	1.0E+01

Comments

Data ha	as been ver	rified.			3/5-7		31		

Fred C.	Montgomery	
IN THE LAND	Operator '	NOTE OF STREET

2-8-2018

Inspection Report Form IRF-C: Summary of Pre-burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction

Compact ID numbers:	1021, 1042, 1056, 1093, 1105	1004, 1016, 1018, 1085, 1101	1006, 1057, 1068, 1078, 1107	1002, 1036, 1038, 1083, 1098	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	3.3E-02	4.6E-02	1.1E+00	3.2E-02	1.2E+00

Comments

Data has been verified.				

Fud C. Numtgowey

2-8-2018

Inspection Report Form IRF-D: Summary of Post-Burn Leach Uranium

	Procedure:	AGR-CHAR-DAM-26 Rev. 3
I	Operator:	Montgomery/Dyer
ı	Compact lot ID:	BWXT J52R-16-14154C
١	Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction

Compact ID numbers:	1009, 1015, 1059, 1065, 1069	1013, 1026, 1029, 1066, 1071	1054, 1062, 1089, 1096, 1097	1023, 1040, 1048, 1084, 1088	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	1.0E+00	8.6E-02	8.4E-01	1.0E+00	3.0E+00

Comments

Data has been verified					

Fuel C. Montgomery Operator

2-8-2018

Inspection Report Form IRF-D: Summary of Post-Burn Leach Uranium

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction

Compact ID numbers:	1021, 1042, 1056, 1093, 1105	1004, 1016, 1018, 1085, 1101	1006, 1057, 1068, 1078, 1107	1002, 1036, 1038, 1083, 1098	Total
Number of compacts:	5	5	5	5	20
Equivalent number of leached kernels:	3.8E-02	3.2E-02	1.1E+00	3.5E-02	1.2E+00

Comments

Data has been verified.				

Fied C. Montgomly Operator

2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1009, 1015, 1059, 1065, 1069
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17110801	L17110901	
	Total volume of leach solution (ml):		91.0	
		156.0	18 18 18 18 18 18 18 18 18 18 18 18 18 1	
	Radiochemical laboratory analysis number:	17812-001	17812-006	
	Measured uranium concentration (µg/ml):	4.93E+00	5.99E-01	
	Uncertainty in uranium concentration (µg/ml):	4.93E-01	5.99E-02	
	Weight uranium leached (g):	7.69E-04	5.45E-05	8.36E-04
	Uncertainty in weight uranium leached (g):	7.70E-05	5.46E-06	7.72E-05
	Equivalent number of leached kernels:	1.95E+00	1.38E-01	2.12E+00
	Uncertainty in equivalent number of leached kernels:	1.96E-01	1.39E-02	1.97E-01
		A STATE OF THE STATE OF		
	Measured concentration of impurity in sample (µg/ml):			Fe
_	Uncorrected weight of impurity in sample (μg):			
Fe	Weight of impurity in blank (μg):		100-17-524	
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
-	Uncorrected weight of impurity in sample (μg):			
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (μg):			
Ni	Weight of impurity in blank (μg):		AL CHICAGO	
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (μg):			
Ca	Weight of impurity in blank (μg):			TO L CO.
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Al
AI	Uncorrected weight of impurity in sample (µg):			
AI	Weight of impurity in blank (μg):			The State of the Local Division in which the
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):		Andrew Property	Ti
Ti	Uncorrected weight of impurity in sample (µg):			-
11	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):	-		
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
v	Uncorrected weight of impurity in sample (µg):			THE RESERVE OF THE PERSON NAMED IN
V	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
-	Maximum corrected weight of impurity in sample (μg):	-		

Water rinse	Include if > 10% of 2nd leach
W17111001	
150.0	
17812-011	
7.97E-02 7.97E-03	
7.97E-03	
1.20E-05	Υ
1.20E-06	
3.03E-02 3.05E-03	
3.05E-03	
Name of Street, or other Designation of the last of th	
	ENGINEER CONTRACTOR
The second second	
CALL TO SERVICE	A STATE OF THE PARTY OF THE PAR
	THE RESERVE OF THE PERSON NAMED IN
	THE HOLE WAS A SECOND
	THE RESERVE THE PARTY OF THE PA
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FCM checked the recorded data against the official Results of Analysis for RMAL17812 on 1/31/2018.

Fied C. Montgomen 2-6-2018

Operator

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1013, 1026, 1029, 1066, 1071
DRF filename:	\\mc-agr\AGR\\ eachBurnl each\14154C-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle uncertainty in mean (g):	3.94F-06

	r	Pr. 1	0 11 1	m . 1
		First Leach L17110802	Second Leach	Total
	Pre-burn leach solution ID:		L17110902	
	Total volume of leach solution (ml):		113.0	
				The state of
	Radiochemical laboratory analysis number:	17812-002 2.44E+00	17812-007	
	Measured uranium concentration (µg/ml):		6.59E+00	
	Uncertainty in uranium concentration (µg/ml): Weight uranium leached (g):	2.44E-01	6.59E-01 7.45E-04	1 215 02
	Uncertainty in weight uranium leached (g):	3.37E-04 3.37E-05		1.21E-03 8.28E-05
	Equivalent number of leached kernels:		7.46E-05	3.07E+00
	Uncertainty in equivalent number of leached kernels:	8.55E-01 8.60E-02	1.89E+00 1.90E-01	2.12E-01
Carpon	Officertainty in equivalent number of feathed kernels.	0.00E-02	1.905-01	2.120-01
	Measured concentration of impurity in sample (µg/ml):	-		Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			THE RESERVE
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
1 - 2 1	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):		THE RESIDENCE OF THE PERSON NAMED IN	THE RESERVE
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (μg):			KO DO BATA
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):	Van de Vend		
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			The same of the same
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			-
Al	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg): Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg/mi):	2 T TO 1 TO 1		V
v	Weight of impurity in sample (µg):			THE RESERVE AND ADDRESS OF THE PARTY OF THE
V	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Plaximum corrected weight of impunity in Sample (pg):			

Water rinse	Include if > 10% of 2nd leach
W17111002	
142.0	
17012 012	
17812-012 8.93E-01	
8.93E-02	
1.27E-04	Υ
1.27E-05 3.22E-01	
3.22E-01	
3.24E-02	
12000000	
	THE RESERVE THE PARTY OF THE PA
	NATIONAL PROPERTY OF THE PARTY

Co	m	m	e	n	ŀ

FCM checked the recorded data against the official Results of Analysis for RMAL17812 on 1/31/2018.

Fuel C. Montgomery 2-6-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1054, 1062, 1089, 1096, 1097
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17110803	L17110903	
Little	Total volume of leach solution (ml):		92.0	
		THE RESERVE TO SERVE		
	Radiochemical laboratory analysis number:	17812-003	17812-008	
	Measured uranium concentration (µg/ml):	5.47E+00	7.96E-01	
	Uncertainty in uranium concentration (µg/ml):	5.47E-01	7.96E-02	
	Weight uranium leached (g):	7.17E-04	7.32E-05	8.05E-04
	Uncertainty in weight uranium leached (g):	7.17E-05	7.34E-06	7.21E-05
	Equivalent number of leached kernels:	1.82E+00	1.86E-01	2.04E+00
	Uncertainty in equivalent number of leached kernels:	1.83E-01	1.87E-02	1.84E-01
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			re
Fe	Weight of impurity in sample (µg):			
	Minimum corrected weight of impurity in sample (µg):			-
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):		OFFICE AND ADDRESS.	
	Minimum corrected weight of impurity in sample (µg):	E-E-Market	Table 19 Sec	
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):		PER SET SET SET SET	
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):	THE RESERVE		
Ni	Weight of impurity in blank (μg):			NO. THE REAL PROPERTY.
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			
197	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
19,15	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
E.S.	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			_
"	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			-
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
197	Uncorrected weight of impurity in sample (µg/mi):			V
v	Weight of impurity in sample (µg):			
٧	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
100	Planting Corrected Weight of Impurity in Sample (pg):			

Maken	To alcode 15	1001	-6 2-41	
Water rinse	Include if >	10%	of 2nd le	ach
W17111003				
160.0				
17812-013				
9.34E-02				
9.34E-03				
1.49E-05		Υ		
1.50E-06 3.79E-02		100	SH YE	100
3.79E-02				
3.81E-03				
THE PARTY				
			E 200	10/6
I May 2 - El	100 miles	V 290		
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	Salar Market	15/15/15	- Table	10000
			-1212	Total Control
	Contract of the last	Name of Street	CONTRACTOR OF THE PARTY OF	-
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			-	
	-	VIE C	P. F. P.	1
	Name of the last	1000		
Name and St				45
9-21-13	BUT LOUIS	N STATE		75-
		3 50	3072	1
Assessment of the last of the	10000	1900	TARRES	
			4-7-	
New York Tool		3100	5024	1000
	Contract of the last of the la	-	THE PERSON NAMED IN	100

0	-	 -	
Co	m	en	H-

FCM checked the recorded data against the official Results of Analysis for RMAL17812 on 1/31/2018.

Fred C. Mantgomery 2-6-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1023, 1040, 1048, 1084, 1088
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 1 DRE26R3 vis

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17110804	L17110904	
	Total volume of leach solution (ml):	133.0	117.0	
30	经过多过程的 从是1990年的经验是1990年1990年1990年		Contract of the last of	
T-T	Radiochemical laboratory analysis number:	17812-004	17812-009	
	Measured uranium concentration (μg/ml):	7.33E+00	8.19E-01	
	Uncertainty in uranium concentration (µg/ml):	7.33E-01	8.19E-02	
	Weight uranium leached (g):	9.75E-04	9.58E-05	1.08E-03
	Uncertainty in weight uranium leached (g):	9.76E-05	9.60E-06	9.81E-05
	Equivalent number of leached kernels:	2.47E+00	2.43E-01	2.75E+00
Name of Street	Uncertainty in equivalent number of leached kernels:	2.49E-01	2.45E-02	2.50E-01
phin .	Measured concentration of impurity in sample (µg/ml):			
	Uncorrected weight of impurity in sample (µg/iii):			Fe
Fe	Weight of impurity in blank (µg):			Control of the last of
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):	1000		
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (μg):			A STATE OF THE PARTY OF THE PAR
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg/mi):			NI
Ni	Weight of impurity in sample (µg):	ATT OF THE REAL PROPERTY.		A THE PARTY OF THE
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
110	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):		No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,	
	Minimum corrected weight of impurity in sample (µg):			A TO LEAD
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			The second second
	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			STREET, SQUARE, SQUARE,
TE	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg/mi):			
v	Weight of impurity in sample (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):		Later Control	
	corrected fieight of impuney in sumple (pg).			

Water rinse	Include if > 10% of 2nd leach
	include if > 10% of 2nd leach
W17111004	
137.0	
17812-004	
8.02E-02	
8.02E-03	
1 10F-05	Y
1.10E-05 1.10E-06	NOT THE OWNER OF THE OWNER.
2.79E-02	
2.81E-03	
THE DELETION	
Washington	
THE PERSON	
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Comments

FCM checked the recorded data against the official Results of Analysis for RMAL17812 on 1/31/2018.

Fred e Montgomery 2-6-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	Pre-burn leach blank
DRF filename:	\mc-agr\AGR\LeachBurnLeach\14154C-Group 1 DRF26R3.xls

Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	-			
		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17110805	L17110905	
	Total volume of leach solution (ml):	177.0	93.0	
900		The state of the s		
-	Radiochemical laboratory analysis number:	17812-005	17812-010	
	Measured uranium concentration (µg/ml):	7.81E-04	9.35E-04	
	Uncertainty in uranium concentration (µg/ml):	7.81E-05	9.35E-05	440
	Weight uranium leached (g):	1.38E-07	8.70E-08	2.25E-07
	Uncertainty in weight uranium leached (g):	1.38E-08	8.72E-09	1.64E-08
	Equivalent number of leached kernels:	3.51E-04	2.21E-04	5.72E-04
	Uncertainty in equivalent number of leached kernels:	3.53E-05	2.22E-05	4.19E-05
1				
Fe	Measured concentration (μg/ml):			Fe
	Total weight of leached impurity (μg):			
Cr	Measured concentration (μg/ml):			Cr
٠.	Total weight of leached impurity (μg):			
Mn	Measured concentration (μg/ml):			Mn
1-411	Total weight of leached impurity (μg):			
Co	Measured concentration (μg/ml):			Co
	Total weight of leached impurity (µg):			
Ni	Measured concentration (μg/ml):			Ni
	Total weight of leached impurity (μg):			
Ca	Measured concentration (μg/ml):			Ca
	Total weight of leached impurity (μg):			
AI	Measured concentration (μg/ml):			Al
	Total weight of leached impurity (μg):			
Ti	Measured concentration (µg/ml):			Ti
	Total weight of leached impurity (μg):			
V	Measured concentration (μg/ml):	- Y		V
	Total weight of leached impurity (µg):			

Water rinse	Include if > 10% of 2nd leach
W17111005	
61.0	
17812-015	
<4.00E-05	
<2.44E-09	N
C 105 06	
6.19E-06	
THE PERSON	
_	

FCM checked the recorded data against the official Results of Analysis for RMAL17812 on 1/31/2018.

Fied C. Montgorney 2-6-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1009, 1015, 1059, 1065, 1069
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 1_DRF26R3.xls

1	Number of compacts:	5
	Average weight uranium per particle, mean value (g):	3.94E-04
	Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17112801	B17113001	Salvan Salvan
	Total volume of leach solution (ml):	48.0	50.0	
100000				
	Radiochemical laboratory analysis number:	17858-001	17858-006	
	Measured uranium concentration (µg/ml):	8.45E+00	6.58E-02	
	Uncertainty in uranium concentration (µg/ml):	8.45E-01	6.25E-03	
	Weight uranium leached (g):	4.06E-04	3.29E-06	4.09E-04
	Uncertainty in weight uranium leached (g):	4.09E-05	3.15E-07	4.09E-05
	Equivalent number of leached kernels:	1.03E+00	8.35E-03	1.04E+00
	Uncertainty in equivalent number of leached kernels:	1.04E-01	8.05E-04	1.04E-01
_	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg/mi):			ге
Fe	Weight of impurity in sample (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			The state of the s
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):	Little Faith		TENEDA SE
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):		0.1 -4 0.000	
	Maximum corrected weight of impurity in sample (µg):			Ni
	Measured concentration of impurity in sample (µg/ml):			NI
Ni	Uncorrected weight of impurity in sample (µg): Weight of impurity in blank (µg):			THE RESERVE THE PARTY NAMED IN
IV.	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			-
Ca	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):	NEW PROPERTY		
7 - 7	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
AI [Weight of impurity in blank (μg):	T. A. P. S. T.	THE PROPERTY OF	
	Minimum corrected weight of impurity in sample (μg):		Marie Server	
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (μg/ml):			Ti
	Uncorrected weight of impurity in sample (μg):			
Ti	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):		and the state of	
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			STATE OF THE PARTY OF
-	Maximum corrected weight of impurity in sample (μg):			

Water rinse	Include if > 10% of 2nd leach
W17113001	
25.0	
25.0	
State of the later	
17858-011	
2.18E-03	
2.18E-04	
5.45E-08	N
5.63E-09	
1.38E-04	
1.44E-05	
1.442 03	
Called Service 1	
40.00	
	THE RESERVE OF THE PERSON NAMED IN
	STATE OF STREET
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FCM checked the recorded data against the official Results of Analysis for RMAL17858 on 1/31/2018.

Field C. Montgomery 2-6-2018

Operator Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1013, 1026, 1029, 1066, 1071
DRF filename:	\\mc-agr\AGR\I eachBurnI each\14154C-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17112802	B17113002	
1-0-1	Total volume of leach solution (ml):	54.0	53.0	
1000				
	Radiochemical laboratory analysis number:	17858-002	17858-007	
1- 1	Measured uranium concentration (µg/ml):	5.91E-01	3.82E-02	
	Uncertainty in uranium concentration (µg/ml):	5.91E-02	3.82E-03	
	Weight uranium leached (g):	3.19E-05	2.02E-06	3.39E-05
	Uncertainty in weight uranium leached (g):	3.21E-06	2.04E-07	3.22E-06
	Equivalent number of leached kernels:	8.10E-02	5.14E-03	8.61E-02
	Uncertainty in equivalent number of leached kernels:	8.20E-03	5.20E-04	8.22E-03
15.30		CONTRACTOR OF THE PARTY OF	THE RESERVE TO SERVE	40 20 20 20 20
1	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			CILL THE COURSE
	Minimum corrected weight of impurity in sample (µg):			
100	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
10-1	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			AT THE RES
	Minimum corrected weight of impurity in sample (µg):			
7	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):			W. Bernston
	Minimum corrected weight of impurity in sample (µg):			
100	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):			NAME OF STREET
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):	W. 19 19 19 19 19 19 19 19 19 19 19 19 19		
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):	A PRINCIPLE OF THE PRIN		
Ni	Weight of impurity in blank (µg):			
0.33	Minimum corrected weight of impurity in sample (µg):			
15	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			- Cu
Ca	Weight of impurity in blank (µg):			THE RESERVE OF THE PERSON NAMED IN
- Cu	Minimum corrected weight of impurity in sample (µg):			THE RESERVE TO SERVE THE PERSON NAMED IN
- 1	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			Al
AI	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
-	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			
	Weight of impurity in slample (µg):			
- "	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			V
v	Weight of impurity in blank (µg):			The state of the state of
,	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	indicated weight of impurity in sample (pg).			

Water rinse	Include if > 10% of 2nd leach
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17.3	
47050 040	
17858-012	
4.73E-03	
4.73E-04	
8.28E-08	N
8.83E-09	The second second second
2.10E-04	
2.25E-05	
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FCM checked the recorded data against the official Results of Analysis for RMAL17858 on 1/31/2018.

Fuld C. Mantgomly 2-6-2018

Operator

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1054, 1062, 1089, 1096, 1097
DRF filename:	\mc-agr\AGR\LeachBurnLeach\14154C-Group 1 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

AV	erage weight diamoni per particle, differently in mean (g).		3.942-00	
		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17112803	B17113003	
	Total volume of leach solution (ml):	53.0	47.0	
-				
	Radiochemical laboratory analysis number:	17858-003	17858-008	
	Measured uranium concentration (µg/ml):	6.15E+00	1.03E-01	
	Uncertainty in uranium concentration (µg/ml):	6.15E-01	1.03E-02	TO PERSONAL PROPERTY AND INC.
	Weight uranium leached (g):	3.26E-04	4.84E-06	3.31E-04
	Uncertainty in weight uranium leached (g):	3.28E-05	4.89E-07	3.28E-05
	Equivalent number of leached kernels: Uncertainty in equivalent number of leached kernels:	8.27E-01	1.23E-02	8.40E-01
-	Oncertainty in equivalent number of leached kernels:	8.38E-02	1.25E-03	8.38E-02
	Measured concentration of impurity in sample (µg/ml):		The same of the sa	Fe
	Uncorrected weight of impurity in sample (µg):			10
Fe	Weight of impurity in blank (µg):			STATE OF THE PARTY
	Minimum corrected weight of impurity in sample (µq):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			NAME OF STREET
Cr	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
- 1	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (μg):		TO A STATE OF THE	1-7-11
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (μg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			NI
Ni	Weight of impurity in blank (µg):	/		ALC: NAME OF TAXABLE PARTY.
	Minimum corrected weight of impurity in sample (µg):			_
	Maximum corrected weight of impurity in sample (µg):			
179	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):			THE REAL PROPERTY.
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (μg):			
Al	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			
11	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			The Party of the P
E.	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			v
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	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
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Water rinse	Include if > 10% of 2nd leach
W17113003	
19.0	
17858-013	
5.06E-03	
5.06E-04	
9.61E-08	N
1.02E-08	
2.44E-04	
2.59E-05	
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FCM checked the recorded data against the official Results of Analysis for RMAL17858 on 1/31/2018.

Fred C. Montgomery 2-6-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1023, 1040, 1048, 1084, 1088
DRF filename	\\mc-agr\AGR\\ eachBurn\ each\14154C-Group 1 DRF26R3 vis

	Number of compacts:	5
ı	Average weight uranium per particle, mean value (g):	3.94E-04
1	Average weight uranium per particle, uncertainty in mean (g):	3,94E-06

Post-burn leach solution ID: B7112804 B17113004 Total volume of leach solution (ml): Radiochemical laboratory analysis number: Radiochemical laboratory analysis number: 17858-004 17858-009 Measured uranium concentration (µg/ml): 5.70E+00 2.55E+00 Uncertainty in uranium concentration (µg/ml): Weight uranium leached (g): 2.85E-04 1.25E-04 4.10E Uncertainty in weight uranium leached (g): 2.87E-05 1.26E-05 3.14E Equivalent number of leached kemels: 7.33E-01 3.17E-01 1.04E Uncertainty in equivalent number of leached kemels: 7.33E-02 3.21E-02 8.03E Measured concentration of impurity in sample (µg/ml): Weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of i	2.11
Radiochemical laboratory analysis number: 17858-004 17858-009 Measured uranium concentration (µg/m): 5.70E+00 2.55E+00 Uncertainty in uranium concentration (µg/m): 5.70E+00 2.55E+01 Weight uranium leached (9): 2.85E-01 1.26E-05 3.14E Equivalent number of leached kemels: 7.23E-01 3.17E-01 1.04E Uncertainty in uranium leached (9): 2.87E-05 1.26E-05 3.14E Equivalent number of leached kemels: 7.23E-01 3.17E-01 1.04E Uncertainty in equivalent number of leached kemels: 7.33E-02 3.21E-02 8.03E Measured concentration of impurity in sample (µg/m): Per Weight of impurity in sample (µg): Per Weight	al
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Measured concentration of impurity in sample (µg/ml):	
Uncorrected weight of impurity in sample (µg):	
V Weight of impurity in blank (µg):	-
Minimum corrected weight of impurity in sample (µg):	
Maximum corrected weight of impurity in sample (µg):	

Water rinse	Include if > 10% of 2nd leach
W17113004	
19.0	
17858-014	
7.67E-02	
7.67E-03	
7.67E-03 1.46E-06	N
1.54E-07	Carried State Control
3.70E-03	
3.93E-04	
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FCM checked the recorded data against the official Results of Analysis for RMAL17858 on 1/31/2018.

Field C. Montgomery 2-6-2018

Operator

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	Post-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 1 DRF26R3.xls

	Average weight uranium per particle, mean value (g):	3.94E-04
Average	weight uranium per particle, uncertainty in mean (g):	3,94E-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	L17112805	L17113005	Total
		47.0	50.0	
Total volume of leach solution (ml):		47.0	30.0	
	Radiochemical laboratory analysis number:	17858-005	17858-010	
Radiochemical laboratory analysis number: Measured uranium concentration (μg/ml):		2.16E-03	5.66E-04	
_	Uncertainty in uranium concentration (µg/ml):	2.16E-04	5.66E-05	
_	Weight uranium leached (q):	1.02E-07	2.83E-08	1.30E-07
-	Uncertainty in weight uranium leached (g):	1.02E-08	2.85E-09	1.06E-08
_	Equivalent number of leached kernels:	2.58E-04	7.18E-05	3.29E-04
_	Uncertainty in equivalent number of leached kernels:	2.61E-05	7.18E-05 7.28E-06	2.72E-05
S2003	oncertainty in equivalent number of leathed Refficia.	2.012-03	7.20L-00	2.72L-03
	Measured concentration (µg/ml):			Fe
Fe	Total weight of leached impurity (µg):			
	Measured concentration (µg/ml):			Cr
Cr	Total weight of leached impurity (µg):			
	Measured concentration (µg/ml):			Mn
Mn	Total weight of leached impurity (µg):			
-	Measured concentration (µg/ml):			Co
Co	Total weight of leached impurity (µg):			
	Measured concentration (µg/ml):			Ni
Ni	Total weight of leached impurity (µg):		Market William	
	Measured concentration (µg/ml):			Ca
Ca	Total weight of leached impurity (µg):			
-	Measured concentration (µg/ml):			Al
Al	Total weight of leached impurity (µg):	N. F		
	Measured concentration (µg/ml):			Ti
Ti	Total weight of leached impurity (µg):			
	Measured concentration (µg/ml):			V
٧	Total weight of leached impurity (µg):			

Water rinse	Include if > 10% of 2nd leach
W17113005	
21.0	
Party State	
17858-015	
4.27E-04	
4.27E-05	
8.97E-09	N
9.39E-10	
2.28E-05	
2.39E-06	
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FCM checked the recorded data against the official Results of Analysis for RMAL17858 on 1/31/2018.

Fred C. Montgomen 2-6-2018

Operator

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1021, 1042, 1056, 1093, 1105
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 2_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17112001	L17112201	
Total volume of leach solution (ml):		118.0	159.0	
1				
	Radiochemical laboratory analysis number:	17843-001	17843-006	
	Measured uranium concentration (µg/ml):	9.20E-02	1.42E-02	
	Uncertainty in uranium concentration (µg/ml):	9.20E-03	1.42E-03	E STATE OF THE PARTY.
	Weight uranium leached (g):	1.09E-05	2.26E-06	1.31E-05
	Uncertainty in weight uranium leached (g):	1.09E-06	2.26E-07	1.11E-06
	Equivalent number of leached kernels:	2.76E-02	5.73E-03	3.33E-02
Company	Uncertainty in equivalent number of leached kernels:	2.77E-03	5.76E-04	2.84E-03
Service Co.	Measured concentration of impurity in sample (µg/ml):	8.20E-01	1.31E-01	Fe
1 4 34	Uncorrected weight of impurity in sample (µg):	96,76	20.83	117.59
Fe	Weight of impurity in blank (µg):	6.47	8.88	117.39
	Minimum corrected weight of impurity in sample (µg):	90.29	11.95	102.24
100	Maximum corrected weight of impurity in sample (µg):	90.29	11.95	102.24
	Measured concentration of impurity in sample (µg/ml):	1,18E-02	2.96E-03	Cr
	Uncorrected weight of impurity in sample (µg):	1.39	0.47	1.86
Cr	Weight of impurity in blank (µg):	< 0.38	0.39	7-18-18-18-18-18-18-18-18-18-18-18-18-18-
V 51 E	Minimum corrected weight of impurity in sample (µg):	1.01	0.08	1.08
	Maximum corrected weight of impurity in sample (μg):	1.39	0.08	1.47
	Measured concentration of impurity in sample (µg/ml):	1.14E-02	1.85E-03	Mn
	Uncorrected weight of impurity in sample (μg):	1.35	0.29	1.64
Mn	Weight of impurity in blank (µg):	0.15	0.20	
	Minimum corrected weight of impurity in sample (µg):	1.20	0.10	1.29
	Maximum corrected weight of impurity in sample (µg):	1.20	0.10	1.29
	Measured concentration of impurity in sample (µg/ml):	3.74E-04	5.92E-05	Co
Co	Uncorrected weight of impurity in sample (µg):	0.04	0.01	0.05
Co	Weight of impurity in blank (μg):	0.02	< 0.01	0.00
-	Minimum corrected weight of impurity in sample (µg):	0.02	0.00	0.02
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):	1.43E-02	0.01 7.77E-03	0.03 Ni
	Uncorrected weight of impurity in sample (µg/m):	1.43E-02	1.24	2,92
Ni	Weight of impurity in blank (µg):	< 0.98	< 0.97	2.92
	Minimum corrected weight of impurity in sample (µg):	0.71	0.27	0.98
	Maximum corrected weight of impurity in sample (µg):	1.69	1.24	2.92
	Measured concentration of impurity in sample (µg/ml):	3.63E+00	6.56E-01	Ca
	Uncorrected weight of impurity in sample (µg):	428.34	104.30	532.64
Ca	Weight of impurity in blank (µg):	<43.96	<43.62	
	Minimum corrected weight of impurity in sample (µg):	384.38	60.68	445.07
	Maximum corrected weight of impurity in sample (µg):	428.34	104.30	532.64
-	Measured concentration of impurity in sample (µg/ml):	4.30E+00	7.25E-01	Al
-	Uncorrected weight of impurity in sample (µg):	507.40	115.28	622.68
Al	Weight of impurity in blank (μg):	9.44	8.57	
	Minimum corrected weight of impurity in sample (μg):	497.96	106.71	604.67
	Maximum corrected weight of impurity in sample (μg):	497.96	106.71	604.67
	Measured concentration of impurity in sample (µg/ml):	8.62E-02	7.17E-02	Ti
Ti	Uncorrected weight of impurity in sample (μg):	10.17	11.40	21.57
111	Weight of impurity in blank (μg):	< 0.70	< 0.69	ALTERNATION OF THE PARTY OF THE
- 5	Minimum corrected weight of impurity in sample (µg):	9.47	10.71	20.18
	Maximum corrected weight of impurity in sample (µg):	10.17 9.89E-02	11.40	21.57
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):	9.89E-02 11.67	2.16E-02 3.43	V 15.10
v	Weight of impurity in blank (µg):	< 0.02	< 0.02	15.10
	Minimum corrected weight of impurity in sample (µg):	11.65	3.42	15.07
	Maximum corrected weight of impurity in sample (µg):	11.67	3.43	15.10
	corrected weight of impunity in sumple (pg).	11.07	3,43	15,10

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Include if > 10% of 2nd leach

Water rinse

Water rinse not analyzed. FCM checked the data against the official results of RMAL17843 on 2/5/2018.

Fred C. Montgomery 2-8-2018

Operator

Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1004, 1016, 1018, 1085, 1101
DRF filename:	\\mc-agr\AGR\ eachBurn each\14154C-Group 2 DRE26R3 xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17112002	L17112202	
17.7	Total volume of leach solution (ml):	121.0	154.0	
The same of				
	Radiochemical laboratory analysis number:		17843-007	
	Measured uranium concentration (µg/ml):		1.75E-02	
- 110	Uncertainty in uranium concentration (µg/ml):	1.26E-02	1.75E-03	
- 11	Weight uranium leached (g):	1.52E-05	2.70E-06	1.79E-05
	Uncertainty in weight uranium leached (g):	1.53E-06	2.70E-07	1.55E-06
	Equivalent number of leached kernels:	3.87E-02	6.84E-03	4.55E-02
	Uncertainty in equivalent number of leached kernels:	3.89E-03	6.88E-04	3.96E-03
	三个三国的东西的西班牙	STATE OF STATE		
11-21-	Measured concentration of impurity in sample (µg/ml):	8.98E-01	1.36E-01	Fe
	Uncorrected weight of impurity in sample (µg):	108.66	20.94	129.60
Fe	Weight of impurity in blank (μg):	6.47	8.88	The second second
1	Minimum corrected weight of impurity in sample (μg):	102.19	12.06	114.25
	Maximum corrected weight of impurity in sample (μg):	102.19	12.06	114.25
- 2 5 1	Measured concentration of impurity in sample (µg/ml):	1.37E-02	4.29E-03	Cr
14	Uncorrected weight of impurity in sample (µg):	1.66	0.66	2.32
Cr	Weight of impurity in blank (μg):	< 0.38	0.39	
	Minimum corrected weight of impurity in sample (μg):	1.27	0.27	1.54
	Maximum corrected weight of impurity in sample (μg):	1.66	0.27	1.92
1 00	Measured concentration of impurity in sample (µg/ml):	1.21E-02	1.98E-03	Mn
	Uncorrected weight of impurity in sample (µg):	1.46	0.30	1.77
Mn	Weight of impurity in blank (µg):	0.15	0.20	
. 7	Minimum corrected weight of impurity in sample (μg):	1.31	0.11	1.42
	Maximum corrected weight of impurity in sample (μg):	1.31	0.11	1.42
	Measured concentration of impurity in sample (µg/ml):	5.22E-04	8.52E-05	Co
	Uncorrected weight of impurity in sample (µg):	0.06	0.01	0.08
Co	Weight of impurity in blank (μg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (μg):	0.04	0.00	0.05
- 3	Maximum corrected weight of impurity in sample (μg):	0.04	0.01	0.06
727	Measured concentration of impurity in sample (µg/ml):	3.39E-02	1.06E-02	Ni
	Uncorrected weight of impurity in sample (μg):	4.10	1.63	5.73
Ni	Weight of impurity in blank (μg):	< 0.98	< 0.97	
	Minimum corrected weight of impurity in sample (μg):	3.13	0.66	3.79
	Maximum corrected weight of impurity in sample (μg):	4.10	1.63	5.73
	Measured concentration of impurity in sample (µg/ml):	3.68E+00	7.96E-01	Ca
	Uncorrected weight of impurity in sample (µg):	445.28	122.58	567.86
Ca	Weight of impurity in blank (µg):	<43.96	<43.62	
	Minimum corrected weight of impurity in sample (µg):	401.32	78.96	480.29
	Maximum corrected weight of impurity in sample (µg):	445.28	122.58	567.86
	Measured concentration of impurity in sample (µg/ml):	4.32E+00	6.58E-01	Al
AI	Uncorrected weight of impurity in sample (µg):	522.72	101.33	624.05
Ai	Weight of impurity in blank (µg):	9.44	8.57	COC OF
	Minimum corrected weight of impurity in sample (μg):	513.28	92.76	606.05
	Maximum corrected weight of impurity in sample (µg):	513.28	92.76	606.05
	Measured concentration of impurity in sample (µg/ml):	8.34E-02	6.16E-02	Ti
Ti	Uncorrected weight of impurity in sample (µg):	10.09	9.49	19.58
	Weight of impurity in blank (µg):	< 0.70	< 0.69 8.79	10.10
	Minimum corrected weight of impurity in sample (µg):	9.39		18.19
	Maximum corrected weight of impurity in sample (µg):		9.49	19.58
	Measured concentration of impurity in sample (µg/ml):	1.06E-01	2.25E-02	V
v	Uncorrected weight of impurity in sample (µg):	12.83	3.47 < 0.02	16.29
v	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):	< 0.02 12.81	< 0.02 3.45	16.26
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):	12.81	3.45	16.26 16.29
	махинин соггестей weight or impunty in sample (µg):	12.83	3.4/	16.29

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Include if > 10% of 2nd leach

Water rinse not analyzed. FCM checked the data against the official results of RMAL17843 on 2/5/2018.

Fud c. montgomeny 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1006, 1057, 1068, 1078, 1107
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3,94E-06

,				
		First Leach	Second Leach	Total
400	Pre-burn leach solution ID:	L17112003	L17112203	
4 - 1	Total volume of leach solution (ml):	119.0	147.0	
1000				
100	Radiochemical laboratory analysis number:	17843-003	17843-008	
	Measured uranium concentration (µg/ml):	3.09E+00	4.08E-01	
	Uncertainty in uranium concentration (µg/ml):	3.09E-01	4.08E-02	
	Weight uranium leached (g):	3.68E-04	6.00E-05	4.28E-04
1	Uncertainty in weight uranium leached (g):	3.68E-05	6.00E-06	3.73E-05
	Equivalent number of leached kernels:	9.33E-01	1.52E-01	1.09E+00
	Uncertainty in equivalent number of leached kernels:	9.39E-02	1.53E-02	9.53E-02
To the				THE RESERVE TO SERVE THE PARTY OF THE PARTY
	Measured concentration of impurity in sample (µg/ml):	9.47E-01	1.74E-01	Fe
	Uncorrected weight of impurity in sample (µg):	112.69	25.58	138.27
Fe	Weight of impurity in blank (µg):	6.47	8.88	The same of
	Minimum corrected weight of impurity in sample (µg):	106.23	16.70	122.92
	Maximum corrected weight of impurity in sample (µg):	106.23	16.70	122.92
	Measured concentration of impurity in sample (µg/ml):	2.70E-02	7.95E-03	Cr
-794	Uncorrected weight of impurity in sample (µg):	3.21	1.17	4.38
Cr	Weight of impurity in blank (µg):	< 0.38	0.39	
	Minimum corrected weight of impurity in sample (μg):	2.83	0.77	3.60
	Maximum corrected weight of impurity in sample (μg):	3.21	0.77	3.99
	Measured concentration of impurity in sample (µg/ml):	1.12E-02	2.20E-03	Mn
- 1	Uncorrected weight of impurity in sample (µg):	1.33	0.32	1.66
Mn	Weight of impurity in blank (μg):	0.15	0.20	
	Minimum corrected weight of impurity in sample (µg):	1.18	0.13	1.31
	Maximum corrected weight of impurity in sample (μg):	1.18	0.13	1.31
-	Measured concentration of impurity in sample (µg/ml):	4.29E-04	7.76E-05	Co
	Uncorrected weight of impurity in sample (µg):	0.05	0.01	0.06
Co	Weight of impurity in blank (μg):	0.02	< 0.01	U.S. C. SESSAPPLY
	Minimum corrected weight of impurity in sample (μg):	0.03	0.00	0.03
	Maximum corrected weight of impurity in sample (μg):	0.03	0.01	0.04
	Measured concentration of impurity in sample (µg/ml):	2.49E-02	< 7.40E-03	Ni
364	Uncorrected weight of impurity in sample (μg):	2.96	< 1.09	< 4.05
Ni	Weight of impurity in blank (μg):	< 0.98	< 0.97	
	Minimum corrected weight of impurity in sample (μg):	1.99	0.00	1.99
	Maximum corrected weight of impurity in sample (μg):	2.96	1.09	4.05
	Measured concentration of impurity in sample (µg/ml):	3.40E+00	5.93E-01	Ca
	Uncorrected weight of impurity in sample (µg):	404.60	87.17	491.77
Ca	Weight of impurity in blank (μg):	<43.96	<43.62	
	Minimum corrected weight of impurity in sample (μg):	360.64	43.55	404.19
	Maximum corrected weight of impurity in sample (μg):	404.60	87.17	491.77
	Measured concentration of impurity in sample (µg/ml):	4.03E+00	7.64E-01	Al
	Uncorrected weight of impurity in sample (µg):	479.57	112.31	591.88
Al	Weight of impurity in blank (μg):	9.44	8.57	THE RESERVE
	Minimum corrected weight of impurity in sample (μg):	470.13	103.74	573.87
	Maximum corrected weight of impurity in sample (μg):	470.13	103.74	573.87
1.5	Measured concentration of impurity in sample (µg/ml):	9.99E-02	8.81E-02	Ti
Ti	Uncorrected weight of impurity in sample (µg):	11.89	12.95	24.84
"	Weight of impurity in blank (μg):	< 0.70	< 0.69	22.45
	Minimum corrected weight of impurity in sample (µg):	11.19	12.26	23.45
	Maximum corrected weight of impurity in sample (μg):	11.89	12.95	24.84
1488	Measured concentration of impurity in sample (µg/ml):	1.02E-01	2.50E-02	V
v	Uncorrected weight of impurity in sample (µg):	12.14	3.68	15.81
V	Weight of impurity in blank (µg):	< 0.02	< 0.02	15.70
	Minimum corrected weight of impurity in sample (µg):	12.12	3.66	15.78
	Maximum corrected weight of impurity in sample (μg):	12.14	3.68	15.81

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Water rinse Include if > 10% of 2nd leach

Co	m	m	er	ts

Water rinse not analyzed. FCM checked the data against the official results of RMAL17843 on 2/5/2018.

Fied c. Montgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1002, 1036, 1038, 1083, 1098
DRF filename:	\\mc-agr\AGR\I eachBurnl each\14154C-Group 2 DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17112004	L17112204	
	Total volume of leach solution (ml):		140.0	
1	[1] · · · · · · · · · · · · · · · · · · ·		THE RESERVE	
	Radiochemical laboratory analysis number:	17843-004	17843-009	
	Measured uranium concentration (µg/ml):	8.84E-02	1.79E-02	
1 -	Uncertainty in uranium concentration (µg/ml):	8.84E-03	1.79E-03	A REPORT OF
	Weight uranium leached (g):	1.03E-05	2.51E-06	1.28E-05
1.3	Uncertainty in weight uranium leached (g):	1.03E-06	2.51E-07	1.06E-06
	Equivalent number of leached kernels:	2.60E-02	6.36E-03	3.24E-02
	Uncertainty in equivalent number of leached kernels:	2.62E-03	6.40E-04	2.70E-03
	Measured concentration of impurity in sample (µg/ml):	9.46E-01	1.76E-01	Fe
1	Uncorrected weight of impurity in sample (µg):	109.74	24.64	134.38
Fe	Weight of impurity in blank (µg):	6.47	8.88	NOT THE OWNER.
1	Minimum corrected weight of impurity in sample (μg):	103.27	15.76	119.03
	Maximum corrected weight of impurity in sample (µg):	103.27	15.76	119.03
100	Measured concentration of impurity in sample (µg/ml):	1.39E-02	5.73E-03	Cr
	Uncorrected weight of impurity in sample (µg):	1.61	0.80	2.41
Cr	Weight of impurity in blank (μg):	< 0.38	0.39	
E. 18	Minimum corrected weight of impurity in sample (μg):	1.23	0.41	1.64
-	Maximum corrected weight of impurity in sample (µg):	1.61	0.41	2.02
	Measured concentration of impurity in sample (µg/ml):	1.20E-02	2.65E-03	Mn
	Uncorrected weight of impurity in sample (µg):	1.39	0.37	1.76
Mn	Weight of impurity in blank (μg):	0.15	0.20	
- 1	Minimum corrected weight of impurity in sample (µg):	1.24	0.17	1.42
-	Maximum corrected weight of impurity in sample (µg):	1.24	0.17	1.42
- "13	Measured concentration of impurity in sample (μg/ml):	4.18E-04	9.00E-05	Co
Co	Uncorrected weight of impurity in sample (µg):	0.05	0.01	0.06
Co	Weight of impurity in blank (μg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (µg):	0.03	0.00	0.03
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):	0.03 6.44E-02	0.01 < 7.40E-03	0.04 Ni
1	Uncorrected weight of impurity in sample (µg):	7.47	< 1.04	< 8.51
Ni	Weight of impurity in blank (µg):	< 0.98	< 0.97	< 8.51
	Minimum corrected weight of impurity in sample (µg):	6.49	0.00	6,49
11	Maximum corrected weight of impurity in sample (µg):	7.47	1.04	8.51
	Measured concentration of impurity in sample (µg/ml):	3.48E+00	6.16E-01	Ca
	Uncorrected weight of impurity in sample (µg):	403.68	86.24	489,92
Ca	Weight of impurity in blank (µg):	<43.96	<43.62	403,32
	Minimum corrected weight of impurity in sample (µg):	359.72	42.62	402,34
	Maximum corrected weight of impurity in sample (µg):	403.68	86.24	489.92
	Measured concentration of impurity in sample (µg/ml):	4.33E+00	7.91E-01	Al
	Uncorrected weight of impurity in sample (µg):	502.28	110.74	613.02
Al	Weight of impurity in blank (µg):	9.44	8.57	
1	Minimum corrected weight of impurity in sample (µg):	492.84	102.17	595.01
	Maximum corrected weight of impurity in sample (µg):	492.84	102.17	595.01
100	Measured concentration of impurity in sample (µg/ml):	1.21E-01	1.01E-01	Ti
	Uncorrected weight of impurity in sample (µg):	14.04	14.14	28.18
Ti	Weight of impurity in blank (μg):	< 0.70	< 0.69	
	Minimum corrected weight of impurity in sample (µg):	13.34	13.45	26.78
	Maximum corrected weight of impurity in sample (μg):	14.04	14.14	28.18
-	Measured concentration of impurity in sample (µg/ml):	1.10E-01	2.68E-02	V
	Uncorrected weight of impurity in sample (µg):	12.76	3.75	16.51
V	Weight of impurity in blank (μg):	< 0.02	< 0.02	7. H. S. P. T. S.
- 5 3	Minimum corrected weight of impurity in sample (μg):	12.74	3.73	16.48
	Maximum corrected weight of impurity in sample (μg):	12.76	3.75	16.51

Water rinse	Include if >	10%	of 2nd	leach
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Water rinse not analyzed. FCM checked the data against the official results of RMAL17843 on 2/5/2018.

Fied c. Montgomly 2-8-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	Pre-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 2_DRF26R3.xls

Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17112005	L17112205	
	Total volume of leach solution (ml):	132.0	131.0	
-			AND DESCRIPTION OF THE PERSON	
	Radiochemical laboratory analysis number:	17843-005	17843-010	
781	Measured uranium concentration (µg/ml):	3.21E-04	4.56E-04	
170	Uncertainty in uranium concentration (µg/ml):	3.21E-05	4.56E-05	
	Weight uranium leached (g):	4.24E-08	5.97E-08	1.02E-07
100	Uncertainty in weight uranium leached (g):	4.24E-09	5.98E-09	7.33E-09
	Equivalent number of leached kernels:	1.08E-04	1.52E-04	2.59E-04
	Uncertainty in equivalent number of leached kernels:	1.08E-05	1.53E-05	1.88E-05
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Fe	Measured concentration (µg/ml):	4.90E-02	6.78E-02	Fe
1.6	Total weight of leached impurity (μg):	6.47	8.88	15.35
Cr	Measured concentration (µg/ml):	< 2.91E-03	3.01E-03	Cr
G	Total weight of leached impurity (μg):	< 0.38	0.39	< 0.78
Mn	Measured concentration (µg/ml):	1.13E-03	1.51E-03	Mn
17111	Total weight of leached impurity (μg):	0.15	0.20	0.35
Co	Measured concentration (μg/ml):	6.55E-04	2.49E-03	Co
00	Total weight of leached impurity (μg):	0.02	< 0.01	< 0.03
Ni	Measured concentration (µg/ml):	< 7.40E-03	< 7.40E-03	Ni
- 11	Total weight of leached impurity (μg):	< 0.98	< 0.97	< 1.95
Ca	Measured concentration (μg/ml):	< 3.33E-01	< 3.33E-01	Ca
ou	Total weight of leached impurity (μg):	<43.96	<43.62	<87.58
AI	Measured concentration (µg/ml):	7.15E-02	6.54E-02	Al
All	Total weight of leached impurity (μg):	9.44	8.57	18.01
Ti	Measured concentration (µg/ml):	< 5.29E-03	< 5.29E-03	Ti
*1	Total weight of leached impurity (μg):	< 0.70	< 0.69	< 1.39
V	Measured concentration (μg/ml):	< 1.33E-04	< 1.33E-04	V
,	Total weight of leached impurity (µg):	< 0.02	< 0.02	< 0.03

Water rinse	Include if > 10% of 2nd leach
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Comments

Water rinse not analyzed.
FCM checked the data against the official results of RMAL17843 on 2/5/2018.
Cobalt values for this Blank sample were an artifact of contamination introduced during analysis. Reported values for 1st and 2nd leach of 0.09 µg and 0.33 µg, respectively, were replaced with typical values 0.02 and <0.01.

Field C. Montgomery 2-8-2018

Operator

Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1021, 1042, 1056, 1093, 1105
DRF filename	\\mc-agr\AGR\I eachBurnl each\14154C-Group 2 DRF26R3 xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

	Г	First Leach	Second Leach	Total
_	Deat hum least calution ID.			IUIdi
Post-burn leach solution ID:		B17120501	B17120801	
Total volume of leach solution (ml):		47.0	50.0	
Radiochemical laboratory analysis number:		17875-001	17875-006	
	Measured uranium concentration (µg/ml):	3.10E-01	5.72E-03	
	Uncertainty in uranium concentration (µg/ml):	3.10E-01	5.72E-04	
	Weight uranium leached (g):	1.46E-05	2.86E-07	1.49E-05
	Uncertainty in weight uranium leached (g):	1.47E-06	2.88E-08	1.47E-06
	Equivalent number of leached kernels:	3.70E-02	7.26E-04	3.77E-02
	Uncertainty in equivalent number of leached kernels:	3.75E-03	7.36E-05	3.75E-03
1000	officertainty in equivarent number of federica nemicion	3.73E 03	7.502 05	3.732 03
	Measured concentration of impurity in sample (µg/ml):	2,38E+00	< 1.09E-01	Fe
	Uncorrected weight of impurity in sample (µg):	111.86	< 5.45	<117.31
Fe	Weight of impurity in blank (µg):	< 5.23	< 5.56	
	Minimum corrected weight of impurity in sample (µg):	106.63	0.00	106.63
	Maximum corrected weight of impurity in sample (µg):	111.86	5.45	117.31
	Measured concentration of impurity in sample (µg/ml):	2.18E-02	< 5.79E-04	Cr
	Uncorrected weight of impurity in sample (µg):	1.02	< 0.03	< 1.05
Cr	Weight of impurity in blank (µg):	< 0.03	< 0.03	
	Minimum corrected weight of impurity in sample (µg):	1,00	0.00	1.00
	Maximum corrected weight of impurity in sample (µg):	1.02	0.03	1.05
	Measured concentration of impurity in sample (µg/ml):	8.36E-03	1.23E-03	Mn
	Uncorrected weight of impurity in sample (µg):	0.39	0.06	0.45
Mn	Weight of impurity in blank (µg):	< 0.04	< 0.05	CONTRACTOR OF THE PARTY OF THE
	Minimum corrected weight of impurity in sample (µg):	0.35	0.01	0.36
	Maximum corrected weight of impurity in sample (µg):	0.39	0.06	0.45
	Measured concentration of impurity in sample (µg/ml):	1.41E-03	< 1.69E-04	Co
- × 1	Uncorrected weight of impurity in sample (µg):	0.07	< 0.01	< 0.07
Co	Weight of impurity in blank (µg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (µg):	0.05	0.00	0.05
	Maximum corrected weight of impurity in sample (µg):	0.05	0.01	0.05
	Measured concentration of impurity in sample (µg/ml):	4.43E-02	< 1.54E-02	Ni
	Uncorrected weight of impurity in sample (μg):	2.08	< 0.77	< 2.85
Ni	Weight of impurity in blank (μg):	< 0.74	< 0.79	The latest
	Minimum corrected weight of impurity in sample (µg):	1.34	0.00	1.34
	Maximum corrected weight of impurity in sample (μg):	2.08	0.77	2.85
	Measured concentration of impurity in sample (µg/ml):	9.87E-01	2.30E-01	Ca
	Uncorrected weight of impurity in sample (μg):	46.39	11.50	60.29
Ca	Weight of impurity in blank (μg):	7.58	3.27	
	Minimum corrected weight of impurity in sample (μg):	38.81	8.23	48.50
	Maximum corrected weight of impurity in sample (μg):	38.81	8.23	48.50
	Measured concentration of impurity in sample (µg/ml):	1.51E+00	3.20E-01	Al
AI	Uncorrected weight of impurity in sample (µg):	70.97	16.00	93.42
AI	Weight of impurity in blank (μg):	1.78	2.20	07.00
	Minimum corrected weight of impurity in sample (µg):	69.19	13.80	87.93
	Maximum corrected weight of impurity in sample (μg):	69.19	13.80	87.93
	Measured concentration of impurity in sample (µg/ml):	5.44E-01 25.57	7.20E-02 3.60	Ti
Ti	Uncorrected weight of impurity in sample (µg):		< 0.19	29.17
""	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):	< 0.18 25.39	3.41	28,80
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):	25.39	3,41	28.80
	Measured concentration of impurity in sample (µg/ml):	25.57 2.73E-01	3,60 3,87E-03	29.17 V
	Uncorrected weight of impurity in sample (µg/mi):	12.83	0.19	13.02
v	Weight of impurity in blank (µg):	< 0.04	< 0.19	13.02
V	Minimum corrected weight of impurity in sample (µg):	12.79	0.15	12.94
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):	12.83	0.15	13.02
	Plaximum corrected weight of impunity in Sample (µg):	12,03	0,17	13,02

Water rinse	Include if > 10% of 2nd leach
W17120801	
25.0	
17875-011	
1.40E-03	
1.40E-04	
3.50E-08	N
3.62E-09	
8.88E-05	
9.22E-06	
STREET, STREET	
< 1.09E-01	
< 2.73	N
< 1.96	
0.00	
2.73	
< 5.79E-04	
< 0.01	N
< 0.01	
0.00	
0.01	
< 9.36E-04	
< 0.02	N
< 0.02	
0.00	
0.02	
< 1.69E-04	
< 0.00	N
< 0.00	
0.00	
0.00	
< 1.54E-02	
< 0.39	N
< 0.28	
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9.59E-02	
2.40	Υ
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FCM checked the data against the official results of RMAL17875 on 2/5/2018.

Fied C. Montgo Mey 2-6-2018

Procedure:	AGR-CHAR-DAM-26 Rev. 3
	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1004, 1016, 1018, 1085, 1101
DRF filename:	\\mc-agr\AGR\I eachBurnI each\14154C-Group 2 DRE26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17120502	B17120802	
	Total volume of leach solution (ml):	41.0	48.0	
EF.SE		A PROPERTY.		
12 / p	Radiochemical laboratory analysis number:	17875-002	17875-007	
	Measured uranium concentration (μg/ml):	3.02E-01	6.22E-03	
	Uncertainty in uranium concentration (µg/ml):	3.02E-02	6.22E-04	
	Weight uranium leached (g):	1.24E-05	2.99E-07	1.27E-05
	Uncertainty in weight uranium leached (g):	1.25E-06	3.01E-08	1.25E-06
	Equivalent number of leached kernels:	3.14E-02	7.58E-04	3.22E-02
-1 -	Uncertainty in equivalent number of leached kernels:	3.20E-03	7.68E-05	3.20E-03
		THE REAL PROPERTY.	best of the less in	
	Measured concentration of impurity in sample (µg/ml):	2.74E+00	1.17E-01	Fe
_	Uncorrected weight of impurity in sample (μg):	112.34	5.62	117.96
Fe	Weight of impurity in blank (μg):	< 5.23	< 5.56	
	Minimum corrected weight of impurity in sample (μg):	107.11	0.06	107.17
	Maximum corrected weight of impurity in sample (µg):	112.34	5.62	117.96
	Measured concentration of impurity in sample (µg/ml):	1.81E-02	< 5.79E-04	Cr
-	Uncorrected weight of impurity in sample (µg):	0.74	< 0.03	< 0.77
Cr	Weight of impurity in blank (μg):	< 0.03	< 0.03	
	Minimum corrected weight of impurity in sample (μg):	0.71	0.00	0.71
	Maximum corrected weight of impurity in sample (μg):	0.74	0.03	0.77
	Measured concentration of impurity in sample (µg/ml):	6.42E-03	< 9.36E-04	Mn
Mn	Uncorrected weight of impurity in sample (µg):	0.26	< 0.04	< 0.31
MI	Weight of impurity in blank (μg):	< 0.04	< 0.05	0.00
	Minimum corrected weight of impurity in sample (μg):	0.22	0.00	0.22
	Maximum corrected weight of impurity in sample (μg):	0.26	0.04	0.31
	Measured concentration of impurity in sample (µg/ml):	1.74E-03	< 1.69E-04	Co
	Uncorrected weight of impurity in sample (µg):	0.07	< 0.01	< 0.08
Co	Weight of impurity in blank (μg):	0.02	< 0.01	0.05
	Minimum corrected weight of impurity in sample (µg):	0.05	0.00	0.05
	Maximum corrected weight of impurity in sample (µg):	0.05	0.01	0.06
	Measured concentration of impurity in sample (µg/ml):	4.46E-02	< 1.54E-02	Ni
Ni	Uncorrected weight of impurity in sample (µg):	1.83	< 0.74	< 2.57
IAI	Weight of impurity in blank (μg):	< 0.74 1.09	< 0.79 0.00	4.00
	Minimum corrected weight of impurity in sample (µg):	1.83	0.00	1.09 2.57
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):	8.03E-01	7.10E-01	2.5/ Ca
	Uncorrected weight of impurity in sample (µg/m):	32.92	34.08	70.56
Ca		7.58	34.08	70.56
Ca	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):	25.34	30.81	58.77
15.16	Maximum corrected weight of impurity in sample (µg):	25.34	30.81	58.77
	Measured concentration of impurity in sample (µg/ml):	1.09E+00	4.31E-01	Al
	Uncorrected weight of impurity in sample (µg):	44.69	20.69	69.16
Al	Weight of impurity in sample (µg):	1.78	2.20	03.10
Α,	Minimum corrected weight of impurity in sample (µg):	42.91	18.48	63,66
- 1	Maximum corrected weight of impurity in sample (µg):	42.91	18.48	63.66
	Measured concentration of impurity in sample (µg/ml):	5.51E-01	8.46E-02	Ti
Ti	Uncorrected weight of impurity in sample (µg):	22.59	4.06	26,65
	Weight of impurity in blank (µg):	< 0.18	< 0.19	20100
75.5	Minimum corrected weight of impurity in sample (µg):	22.41	3.87	26,29
	Maximum corrected weight of impurity in sample (µg):	22.59	4.06	26.65
	Measured concentration of impurity in sample (µg/ml):	2.65E-01	3.67E-03	V
	Uncorrected weight of impurity in sample (µg):	10.87	0.18	11.04
v	Weight of impurity in blank (µg):	< 0.04	< 0.04	
-	Minimum corrected weight of impurity in sample (µg):	10.82	0.13	10.96
	Maximum corrected weight of impurity in sample (µg):	10.87	0.18	11.04
		10107	0.10	11107

Water rinse	Include if > 10% of 2nd leach
W17120802	
19.0	
17875-012	
3.11E-03	
3.11E-04	
5.91E-08	N
6.25E-09	
1.50E-04	
1.59E-05	
< 1.09E-01	
< 2.07	N
< 1.96	Charles The Control of the
0.00	
2.07	
< 5.79E-04	
< 0.01	N
< 0.01	
0.00	
0.01	
< 9.36E-04	
< 0.02	N
< 0.02	
0.00	
0.02	
< 1.69E-04 < 0.00	N
< 0.00	N
0.00	
0.00	
< 1.54E-02	
< 0.29	N
< 0.28	
0.00	
0.29	
1.87E-01	
3.55	Υ
0.93	
2.62	
2.62	
1.99E-01 3.78	Y
1.52	PARTY OF STREET
2.27	
2.27	
1.32E-02	
0.25	N
< 0.07	
0.18	
0.25	
< 8.43E-04	
< 0.02	N
< 0.02	
0.00	and the second second
0.02	The second secon

C	om	m	e	ní	ì

FCM checked the data against the official results of RMAL17875 on 2/5/2018.

Fuel C. Montgomly 2-6-2019
Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1006, 1057, 1068, 1078, 1107
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 2 DRF26R3.xls

	Number of compacts:	5
Average	weight uranium per particle, mean value (g):	3.94E-04
Average weight	uranium per particle, uncertainty in mean (g):	3.94E-06

	T			
		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17120503	B17120803	
	Total volume of leach solution (ml):	45.0	46.0	
		AND DESCRIPTIONS		
	Radiochemical laboratory analysis number:	17875-003	17875-008	And a second
	Measured uranium concentration (µg/ml):	9.28E+00	7.20E-02	
	Uncertainty in uranium concentration (µg/ml):	9.28E-01	7.20E-03	E EST SES
	Weight uranium leached (g):	4.18E-04	3.31E-06	4.21E-04
	Uncertainty in weight uranium leached (g):	4.22E-05	3.34E-07	4.22E-05
	Equivalent number of leached kernels:	1.06E+00	8.41E-03	1.07E+00
	Uncertainty in equivalent number of leached kernels:	1.08E-01	8.53E-04	1.08E-01
0.965	Measured concentration of impurity in sample (µg/ml):	3.32E+00	1,22E-01	Fe
		3.32E+00 149.40		155.01
Fe	Uncorrected weight of impurity in sample (µg):	< 5.23	5.61 < 5.56	155.01
re	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):	144.17	0.05	144.22
	Maximum corrected weight of impurity in sample (µg):	149.40	5.61	155.01
	Measured concentration of impurity in sample (µg/ml):	1.94E-02	< 5.79E-04	155.01 Cr
	Uncorrected weight of impurity in sample (µg):	0.87	< 0.03	< 0.90
Cr	Weight of impurity in sample (µg):	< 0.03	< 0.03	< 0.50
O.	Minimum corrected weight of impurity in sample (µg):	0.85	0.00	0.85
-	Maximum corrected weight of impurity in sample (µg):	0.87	0.03	0.90
	Measured concentration of impurity in sample (µg/ml):	6.30E-03	< 9.36E-04	Mn
5 -0	Uncorrected weight of impurity in sample (µg):	0.28	< 0.04	< 0,33
Mn	Weight of impurity in blank (µg):	< 0.04	< 0.05	V 0.55
	Minimum corrected weight of impurity in sample (µg):	0.24	0.00	0.24
18	Maximum corrected weight of impurity in sample (µg):	0.28	0.04	0.33
	Measured concentration of impurity in sample (µg/ml):	2,12E-03	< 1.69E-04	Co
100	Uncorrected weight of impurity in sample (µg):	0.10	< 0.01	< 0.10
Co	Weight of impurity in blank (µg):	0.02	< 0.01	
	Minimum corrected weight of impurity in sample (µg):	0.07	0.00	0.07
	Maximum corrected weight of impurity in sample (µg):	0.07	0.01	0.08
-	Measured concentration of impurity in sample (µg/ml):	5.94E-02	< 1.54E-02	Ni
	Uncorrected weight of impurity in sample (µg):	2.67	< 0.71	< 3.38
Ni	Weight of impurity in blank (µg):	< 0.74	< 0.79	
	Minimum corrected weight of impurity in sample (µg):	1.93	0.00	1.93
	Maximum corrected weight of impurity in sample (µg):	2.67	0.71	3.38
-43	Measured concentration of impurity in sample (µg/ml):	1.01E+00	2.02E-01	Ca
	Uncorrected weight of impurity in sample (μg):	45.45	9.29	57.24
Ca	Weight of impurity in blank (μg):	7.58	3.27	AND THE RESERVE TO
	Minimum corrected weight of impurity in sample (μg):	37.87	6.02	45.46
	Maximum corrected weight of impurity in sample (μg):	37.87	6.02	45.46
	Measured concentration of impurity in sample (µg/ml):	1.29E+00	2.27E-01	Al
	Uncorrected weight of impurity in sample (µg):	58.05	10.44	72.27
Al	Weight of impurity in blank (μg):	1.78	2.20	
	Minimum corrected weight of impurity in sample (µg):	56.27	8.24	66.78
	Maximum corrected weight of impurity in sample (μg):	56.27	8.24	66.78
Ti	Measured concentration of impurity in sample (μg/ml):	4.29E-01	6.22E-02	Ti
	Uncorrected weight of impurity in sample (µg):	19.31	2.86	22.17
	Weight of impurity in blank (µg):	< 0.18	< 0.19	24.00
	Minimum corrected weight of impurity in sample (μg): Maximum corrected weight of impurity in sample (μq):	19.13 19.31	2.67 2.86	21.80
	Measured concentration of impurity in sample (µg/ml):	2.51E-01	5.55E-03	22.17 V
	Uncorrected weight of impurity in sample (µg/mi):	2.51E-01 11.30	0.26	11.55
v	Weight of impurity in blank (µg):	< 0.04	< 0.04	11.55
	Minimum corrected weight of impurity in sample (µg):	11.25	0.21	11.47
	Maximum corrected weight of impurity in sample (µg):	11.30	0.26	11.55
		11.50	0,20	11.00

Water rinse	Include if > 10% of 2nd leach
W17120803	
20.0	
20,0	
17875-013	
3.16E-03	
3.16E-04	
6.32E-08	N
6.65E-09	THE RESERVE AND ADDRESS OF THE PARTY.
1.60E-04	
1.69E-05	
TIOSE OS	
< 1.09E-01	
< 2.18	N
< 1.96	
0.00	
2.18	
< 5.79E-04	
< 0.01	N
< 0.01	
0.00	
0.01	
< 9.36E-04	
< 0.02	N
< 0.02	
0.00	
0.02	
< 1.69E-04	
< 0.00	N
< 0.00	
0.00	
0.00	
< 1.54E-02	
< 0.31	N
< 0.28	
0.00	
0.31	
1.25E-01	The same of the sa
2.50	Υ
0.93	THE RESERVED TO SERVED THE PARTY OF THE PART
1.57	
1.57	
1.89E-01	THE RESIDENCE OF THE PARTY OF T
3.78	Y
1.52	
2.26	
2.26	
9.67E-03	
0.19	N
< 0.07	
0.13	
0.19	
< 8.43E-04	
< 0.02	N
< 0.02	THE RESERVE TO SERVE THE
0.00	
0.02	

FCM checked the data against the official results of RMAL17875 on 2/5/2018.

Fued C. Montgomery 2-6-2018
Date

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	1002, 1036, 1038, 1083, 1098
DRF filename:	\mc-agr\AGR\LeachBurnLeach\14154C-Group 2_DRF26R3.xls

Number of compacts:	5
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle uncertainty in mean (g):	3 04F-06

		First Leach	Second Leach	Total
0.1	Post-burn leach solution ID:	B17120504	B17120804	
	Total volume of leach solution (ml):	45.0	48.0	
-16				
	Radiochemical laboratory analysis number:	17875-004	17875-009	
	Measured uranium concentration (μg/ml):	3.04E-01	5.43E-03	
	Uncertainty in uranium concentration (µg/ml):	3.04E-02	5.43E-04	
_	Weight uranium leached (g):	1.37E-05	2.61E-07	1.39E-05
	Uncertainty in weight uranium leached (g): Equivalent number of leached kernels:	1.38E-06	2.63E-08	1.38E-06
	Uncertainty in equivalent number of leached kernels:	3.47E-02 3.53E-03	6.62E-04 6.71E-05	3.54E-02 3.53E-03
	Officertainty in equivalent number of feathed kerners.	3.33E-03	0.71E-03	3.33E-03
-	Measured concentration of impurity in sample (µg/ml):	2.43E+00	< 1.09E-01	Fe
	Uncorrected weight of impurity in sample (µg):	109.35	< 5.23	<114.58
Fe	Weight of impurity in blank (µg):	< 5.23	< 5.56	1111.50
2.5	Minimum corrected weight of impurity in sample (µg):	104.12	0.00	104.12
	Maximum corrected weight of impurity in sample (µg):	109.35	5.23	114.58
	Measured concentration of impurity in sample (µg/ml):	1.79E-02	< 5.79E-04	Cr
	Uncorrected weight of impurity in sample (µg):	0.81	< 0.03	< 0.83
Cr	Weight of impurity in blank (μg):	< 0.03	< 0.03	
	Minimum corrected weight of impurity in sample (µg):	0.78	0.00	0.78
	Maximum corrected weight of impurity in sample (μg):	0.81	0.03	0.83
	Measured concentration of impurity in sample (µg/ml):	7.19E-03	< 9.36E-04	Mn
	Uncorrected weight of impurity in sample (μg):	0.32	< 0.04	< 0.37
Mn	Weight of impurity in blank (μg):	< 0.04	< 0.05	CONTRACTOR OF STREET
	Minimum corrected weight of impurity in sample (μg):	0.28	0.00	0.28
	Maximum corrected weight of impurity in sample (μg):	0.32	0.04	0.37
	Measured concentration of impurity in sample (µg/ml):	1.41E-03	< 1.69E-04	Co
	Uncorrected weight of impurity in sample (µg):	0.06	< 0.01	< 0.07
Co	Weight of impurity in blank (µg):	0.02	< 0.01	0.04
	Minimum corrected weight of impurity in sample (µg):	0.04	0.00	0.04
	Maximum corrected weight of impurity in sample (µg):	0.04 4.46E-02	0.01 < 1.54E-02	0.05 Ni
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):	2.01	< 1.54E-02 < 0.74	< 2.75
Ni	Weight of impurity in blank (µg):	< 0.74	< 0.79	2.73
	Minimum corrected weight of impurity in sample (µg):	1,27	0.00	1.27
	Maximum corrected weight of impurity in sample (µg):	2.01	0.74	2.75
	Measured concentration of impurity in sample (µg/ml):	1.06E+00	1.89E-01	Ca
	Uncorrected weight of impurity in sample (µg):	47.70	9.07	62.33
Ca	Weight of impurity in blank (µg):	7.58	3,27	
-	Minimum corrected weight of impurity in sample (µg):	40.12	5.80	50.55
	Maximum corrected weight of impurity in sample (μg):	40.12	5.80	50.55
700	Measured concentration of impurity in sample (µg/ml):	1.47E+00	2.65E-01	Al
-	Uncorrected weight of impurity in sample (µg):	66.15	12.72	86.55
Al	Weight of impurity in blank (μg):	1.78	2.20	
	Minimum corrected weight of impurity in sample (μg):	64.37	10.52	81.06
	Maximum corrected weight of impurity in sample (µg):	64.37	10.52	81.06
	Measured concentration of impurity in sample (µg/ml):	4.21E-01	3.82E-02	Ti
Ti	Uncorrected weight of impurity in sample (μg):	18.95	1.83	21.10
	Weight of impurity in blank (μg):	< 0.18	< 0.19	20.67
	Minimum corrected weight of impurity in sample (µg):	18.77	1.65	20.67
	Maximum corrected weight of impurity in sample (µg):	18.95 2.47E-01	1.83 5.61E-03	21.10 V
	Measured concentration of impurity in sample (µg/ml):	2.4/E-01 11.12	0.27	11.38
v	Uncorrected weight of impurity in sample (µg): Weight of impurity in blank (µg):	< 0.04	< 0.04	11.30
, v	Minimum corrected weight of impurity in sample (µg):	11.07	0.23	11.30
	Maximum corrected weight of impurity in sample (µg):	11.12	0.23	11.38
	Plaximani corrected weight or impunity in sample (pg).	11,12	0.27	11,50

Water rinse	Include if > 10% of 2nd leach
W17120804	
20.0	
The second	
17875-014	
4.00E-03	
4.00E-04	
8.00E-08 8.41E-09	N
2.03E-04	
2.14E-05	
2,142 03	
< 1.09E-01	
< 2.18	N
< 1.96	
0.00	
2.18	
< 5.79E-04	
< 0.01	N
< 0.01	
0.00	
0.01	
< 9.36E-04	
< 0.02	N
< 0.02	
0.02	
< 1.69E-04	
< 0.00	N
< 0.00	
0.00	
0.00	
< 1.54E-02	
< 0.31	N
< 0.28	
0.00	
0.31	
2.78E-01	
5.56	Y
0.93 4.63	有事情况下,参加。 美国
4.63	
3.84E-01	
7.68	Y
1.52	
6.16	
6.16	
1.61E-02	
0.32	Υ
< 0.07	
0.26	
0.32	
< 8.43E-04	
< 0.02	N
< 0.02	
0.00	
0.02	

Co	m	m	e	n	t

FCM checked the data against the official results of RMAL17875 on 2/5/2018.

Fied C. Montgomery 2-6-2018

Operator

Operator

Procedure:	AGR-CHAR-DAM-26 Rev. 3
Operator:	Montgomery/Dyer
Compact lot ID:	BWXT J52R-16-14154C
Compact lot description:	AGR-5/6/7 compacts, 40% packing fraction
Compact ID numbers:	Post-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\14154C-Group 2 DRF26R3.xls

The state of the s	
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	<u>.</u>			
		First Leach	Second Leach	Total
Post-burn leach solution ID:		B17120505	B17120805	ALEXANDER OF THE PARTY OF THE P
Total volume of leach solution (ml):		48.0	51.0	
1		THE RESIDENCE OF STREET		
	Radiochemical laboratory analysis number:	17875-005	17875-010	
	Measured uranium concentration (µg/ml):	1.04E-03	3.28E-04	
	Uncertainty in uranium concentration (µg/ml):	1.04E-04	3.28E-05	
	Weight uranium leached (g):	4.99E-08	1.67E-08	6.66E-08
	Uncertainty in weight uranium leached (g):	5.04E-09	1.69E-09	5.31E-09
	Equivalent number of leached kernels:	1.27E-04	4.25E-05	1.69E-04
	Uncertainty in equivalent number of leached kernels:	1.28E-05	4.30E-06	1.36E-05
1000				
Fe	Measured concentration (µg/ml):	< 1.09E-01	< 1.09E-01	Fe
10	Total weight of leached impurity (μg):	< 5.23	< 5.56	<10.79
Cr	Measured concentration (μg/ml):	< 5.79E-04	< 5.79E-04	Č
Ci.	Total weight of leached impurity (μg):	< 0.03	< 0.03	< 0.06
Mn	Measured concentration (μg/ml):	< 9.36E-04	< 9.36E-04	Mn
Part	Total weight of leached impurity (μg):	< 0.04	< 0.05	< 0.09
Co	Measured concentration (μg/ml):	4.35E-04	< 1.69E-04	Co
	Total weight of leached impurity (μg):	0.02	< 0.01	< 0.03
Ni	Measured concentration (μg/ml):	< 1.54E-02	< 1.54E-02	Ni
	Total weight of leached impurity (μg):	< 0.74	< 0.79	< 1.52
Ca	Measured concentration (μg/ml):	1.58E-01	6.41E-02	Ca
Cu	Total weight of leached impurity (μg):	7.58	3.27	11.79
AI	Measured concentration (μg/ml):	3.70E-02	4.32E-02	Al
۸,	Total weight of leached impurity (μg):	1.78	2.20	5.49
Ti	Measured concentration (µg/ml):	< 3.69E-03	< 3.69E-03	Ti
-	Total weight of leached impurity (μg):	< 0.18	< 0.19	< 0.37
V	Measured concentration (μg/ml):	< 8.43E-04	< 8.43E-04	V
	Total weight of leached impurity (μg):	< 0.04	< 0.04	< 0.08

Water rinse	Include if > 10% of 2nd leach
W17120805	
18.0	
17875-015	
5.26E-04	
5.26E-05	
9.47E-09	N
1.01E-09	
2.40E-05	
2.57E-06	
THE R. LEWIS CO., LANSING	
< 1.09E-01	
< 1.96	N
< 5.79E-04	
< 0.01	N
< 9.36E-04	THE PERSON NAMED IN COLUMN
< 0.02	N
< 1.69E-04	
< 0.00	N
< 1.54E-02	
< 0.28	N
5.18E-02	v
0.93	Υ
8.42E-02	Y
1.52	Y
< 3.69E-03	N
< 0.07 < 8.43E-04	IV
	N
< 0.02	IN .

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FCM checked the data against the official results of RMAL17875 on 2/5/2018.

Fied C. Montgo Mey 2-6 2018

Operator Date

APPENDIX C. Report Forms for Over-coated Particles

Inspection Report Form IRF-C: Summary of Pre-burn Leach Uranium

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction

Particle clutch ID:	11034-01	11034-02	11034-03	11034-04	Total
Number of particles:	17627	18614	17972	17826	72039
Equivalent number of leached kernels:	9.0E-02	9.6E-02	9.2E-02	9.7E-02	3.7E-01

Comments

Data has been verified.				

Fred C. Montgomery Operator

2-8-2018 Date

Inspection Report Form IRF-C: Summary of Pre-burn Leach Uranium

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction

Particle clutch ID:	11034-05	11034-06	11034-07	11034-08	Total
Number of particles:	19852	18722	17693	18964	75231
Equivalent number of leached kernels:	3.1E+00	1.7E-01	1.1E-01	3.6E+00	7.0E+00

Comments

Data has been verified.					

Fred C. Montgomery
Operator

2-8-2018

Date

Inspection Report Form IRF-D: Summary of Post-Burn Leach Uranium

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction

Particle clutch ID:	11034-01	11034-02	11034-03	11034-04	Total
Number of particles:	17627	18614	17972	17826	72039
Equivalent number of leached kernels:	3.7E-03	2.9E-03	3.6E-03	1.2E+00	1.2E+00

Comments

Data has been verified.					

Fred C. Montgomery 2-8-2018
Operator Date

Inspection Report Form IRF-D: Summary of Post-Burn Leach Uranium

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction

Particle clutch ID:	11034-05	11034-06	11034-07	11034-08	Total
Number of particles:	19852	18722	17693	18964	75231
Equivalent number of leached kernels:	1.5E-01	1.1E-01	6.4E-03	1.4E-02	2.8E-01

Comments

Data has been verified.				

Fied C. Montgomery
Operator

2-8-2018

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-01
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2,xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	36.0677
Approximate number of particles in clutch:	17627
Uncertainty in number of particles:	109
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	Ī	First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17091901	L17092101	
_	Total volume of leach solution (ml):	94.0	103.5	
1350		7110	105.5	
	Radiochemical laboratory analysis number:	17665-001	17665-006	
	Measured uranium concentration (µg/ml):	3.32E-01	3,99E-02	
	Uncertainty in uranium concentration (µg/ml):	3.32E-02	3.99E-03	
	Weight uranium leached (g):	3.12E-05	4.13E-06	3.53E-05
	Uncertainty in weight uranium leached (g):	3.13E-06	4.14E-07	3.16E-06
	Equivalent number of leached kernels:	7.92E-02	1.05E-02	8.97E-02
	Uncertainty in equivalent number of leached kernels:	7.98E-03	1.06E-03	8.06E-03
		The same of the sa		Section 1
	Measured concentration of impurity in sample (µg/ml):	TO THE TOTAL		Fe
	Uncorrected weight of impurity in sample (µg):	DU. PARIS DESIGNATION		
Fe	Weight of impurity in blank (µg):			26-1700-
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (μg):		AND THE RESIDENCE	DE LOS DE LOS DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION
	Minimum corrected weight of impurity in sample (µg):		P. L. Craffer	
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):	5 No. 10 11 11		
	Minimum corrected weight of impurity in sample (µg):			A STATE OF THE STA
	Maximum corrected weight of impurity in sample (µg);			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):			SULPS-SUPERIN
	Minimum corrected weight of impurity in sample (µg):	CAL DELICA		STATE OF THE STATE
	Maximum corrected weight of impurity in sample (µg):			E CONTRACTOR OF THE PARTY OF TH
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (µg):		CAR STREET	The state of the s
	Minimum corrected weight of impurity in sample (µg):	- 11 11 11		
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):		PARTICIPATION OF THE PARTICIPA	The state of the state of
	Minimum corrected weight of impurity in sample (µg):		No. of Street, or other Designation of the last of the	
	Maximum corrected weight of impurity in sample (µg):		PERMITS OF	
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (µg):		On the Contract of the Contrac	- CAL WAS 10
	Minimum corrected weight of impurity in sample (µg):			Section 2
7.	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):	THE RESERVE	THE REAL PROPERTY.	
	Measured concentration of impurity in sample (µg/ml):			V
,- i	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):		The second second	
	Maximum corrected weight of impurity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
W17092106	Include II > 1070 Of Elia leach
40.0	
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17665-011	
6.26E-03	
6.26E-04 2.50E-07	
2.50E-07	N
2.54E-08 6.36E-04	
6.36E-04	
6.47E-05	
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FCM checked the data against the Official Results of Analyses for RMAL17665 on 2/5/2018.

Field C. Montgomery 2-8-2018
Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
	Montgomery/Dyer/Helmreich
	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-02
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2.xls

Average weight per particle, mean value (g):	2.05E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	38.0877
Approximate number of particles in clutch:	18614
Uncertainty in number of particles:	115
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17091902	L17092102	Section 1
	Total volume of leach solution (ml):	83.0	105.0	
175		RECOGNICA		
	Radiochemical laboratory analysis number:	17665-002	17665-007	
	Measured uranium concentration (µg/ml):	3.81E-01	6.05E-02	
	Uncertainty in uranium concentration (µg/ml):	3.81E-02	6.05E-03	
	Weight uranium leached (g):	3.16E-05	6.35E-06	3.80E-05
	Uncertainty in weight uranium leached (g):	3.17E-06	6.36E-07	3.24E-06
	Equivalent number of leached kernels:	8.03E-02	1.61E-02	9.64E-02
	Uncertainty in equivalent number of leached kernels:	8.09E-03	1.62E-03	8.27E-03
			No. of the last of	
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (μg):			The Park of the
Fe	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (μg/ml):			Cr
	Uncorrected weight of impurity in sample (μg):			
Cr	Weight of impurity in blank (µg):		Printer all Printers in	THE STATE OF
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (μg):			
Mn	Weight of impurity in blank (µg):			136 - 276 C
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):		DEPOSITE OF THE PARTY OF THE PA	
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (μg):			
Ni	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
_	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (μg/ml):			Al
AI	Uncorrected weight of impurity in sample (µg):			
AI	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
-	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):			Ti
Ti	Weight of impurity in blank (µg):			The second second
-	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):		-	V
3	Uncorrected weight of impurity in sample (µg/mi):			v
v	Weight of impurity in sample (µg):			-
V	Minimum corrected weight of impurity in sample (µg):			THE RESERVE
10	Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg):			
	Plaximum corrected weight of impurity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
W17092107	
40.0	
17665-012	
9.13E-03	
9.13E-04	
3.65E-07	N
3.70E-08	
9.27E-04	
9.44E-05	
9 4 1 () 2 2 3 1	
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FCM checked the data against the Official Results of Analyses for RMAL17665 on 2/5/2018.

Fied C. Montgomey 2-8-2018
Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-03
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2,xls

Average weight per particle, mean value (g):	2.05E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	36.7740
Approximate number of particles in clutch:	17972
Uncertainty in number of particles:	111
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17091903	L17092103	
Total volume of leach solution (ml):		92.0	87.5	
- 50			0,10	
	Radiochemical laboratory analysis number:	17665-003	17665-008	
E	Measured uranium concentration (µg/ml):	3.45E-01	4.96E-02	
	Uncertainty in uranium concentration (µg/ml):	3.45E-02	4.96E-03	
	Weight uranium leached (g):	3.17E-05	4.34E-06	3.61E-05
	Uncertainty in weight uranium leached (g):	3.18E-06	4.35E-07	3.21E-06
	Equivalent number of leached kernels:	8.06E-02	1.10E-02	9.16E-02
	Uncertainty in equivalent number of leached kernels:	8.12E-03	1.11E-03	8.20E-03
Carry .	The state of the s			
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			THE PARTY NAMED IN
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
-	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):			Mn
Mn	Weight of impurity in blank (µg):			Control of the latest terms
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			CO
Co	Weight of impurity in blank (µg):			STATE OF THE OWNER, TH
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			STATE OF THE REAL PROPERTY.
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (μg):			
Ca	Weight of impurity in blank (μg):			
,1	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
-	Measured concentration of impurity in sample (µg/ml):			Al
AI	Uncorrected weight of impurity in sample (µg):			
AI	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg/ml):			Ti
-	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µq):			The second second
•	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			V
v	Weight of impurity in blank (µg):			The same of the sa
210	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
_	corrected neight of imparity in sumple (pg).]			

Water rinse	Include if > 10% of 2nd leach
W17092108	
40.0	
Salar Salar	
17665-013	
7.14E-03	
7.14E-04	
7.14E-04	
2.86E-07	N
2.89E-08	
7.25E-04	
7.38E-05	
7.7.0	
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	April 100 St. Selection in the Contract
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FCM checked the data against the Official Results of Analyses for RMAL17665 on 2/5/2018.

Fred C. Myntgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-04
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1_DRF21R2.xls

Average weight per particle, mean value (g):	2.05E-03
Average weight per particle, uncertainty in mean (g):	
Weight of particle clutch (g):	
Approximate number of particles in clutch:	17826
Uncertainty in number of particles:	110
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	Γ	First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17091904	L17092104	
_	Total volume of leach solution (ml):	91.0	100.0	
4567		31.0	100.0	
	Radiochemical laboratory analysis number:	17665-004	17665-009	
	Measured uranium concentration (µg/ml):	3.41E-01	7.29E-02	
	Uncertainty in uranium concentration (µg/ml):	3.41E-02	7.29E-03	
	Weight uranium leached (g):	3.10E-05	7.29E-06	3.83E-05
	Uncertainty in weight uranium leached (g):	3.11E-06	7.31E-07	3.20E-06
	Equivalent number of leached kernels:	7.88E-02	1.85E-02	9.73E-02
	Uncertainty in equivalent number of leached kernels:	7.94E-03	1.86E-03	8.17E-03
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (μg):		A CONTRACT OF	
	Minimum corrected weight of impurity in sample (μg):		THE WORLD	
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
_	Uncorrected weight of impurity in sample (μg):			
Co	Weight of impurity in blank (μg):			
-	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
- 1	Measured concentration of impurity in sample (µg/ml):			Ni
Ni	Uncorrected weight of impurity in sample (μg):			
MI	Weight of impurity in blank (μg):			BAR DOWN
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
Ca	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µq):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			AI
AI	Weight of impurity in sample (µg):			ALC: N. CO. LEWIS CO.
	Minimum corrected weight of impurity in sample (µg):			-
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):		THE RESERVE TO SERVE	
	Weight of impurity in blank (µg):			AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED
2002	Minimum corrected weight of impurity in sample (μg):		30 TAX 4	
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
-	Uncorrected weight of impurity in sample (µg):			
v	Weight of impurity in blank (µg):			11000
-	Minimum corrected weight of impurity in sample (μq):			
	Maximum corrected weight of impurity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
W17092109	
40.0	
17665-014	
9.63E-03	
9 64F-04	
3.85E-07	N
3.91E-08	
9.78E-04	
9.96E-05	
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FCM checked the data against the Official Results of Analyses for RMAL17665 on 2/5/2018.

Fiel C. Montgomey 2-8-2018

Operator

Procedure:	AGR-CHAR-DAM-21 Rev. 2
	Montgomery/Dyer/Helmreich
	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	Pre-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2.xls

Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	-			
		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17091905	L17092105	
	Total volume of leach solution (ml):	97.3	97.0	
625				
	Radiochemical laboratory analysis number:	17665-005	17665-010	
	Measured uranium concentration (μg/ml):	2.02E-04	2.68E-04	
	Uncertainty in uranium concentration (µg/ml):	2.02E-05	2.68E-05	
	Weight uranium leached (g):	1.97E-08	2.60E-08	4.57E-08
	Uncertainty in weight uranium leached (g):	1.97E-09	2.61E-09	3.27E-09
	Equivalent number of leached kernels:	4.99E-05	6.60E-05	1.16E-04
	Uncertainty in equivalent number of leached kernels:	5.02E-06	6.65E-06	8.37E-06
		Y CONTRACT	Device the second	A CONTRACTOR
Fe	Measured concentration (µg/ml):			Fe
A Contract of the Contract of	Total weight of leached impurity (μg):			
Cr	Measured concentration (µg/ml):			Cr
-	Total weight of leached impurity (μg):			
Mn	Measured concentration (µg/ml):			Mn
	Total weight of leached impurity (μg):			
Co	Measured concentration (µg/ml):			Co
5,6,	Total weight of leached impurity (μg):			
Ni	Measured concentration (µg/ml):			Ni
	Total weight of leached impurity (μg):			
Ca	Measured concentration (µg/ml):			Ca
	Total weight of leached impurity (μg):			
Al	Measured concentration (µg/ml):			Al
2000	Total weight of leached impurity (µg):			
Ti	Measured concentration (µg/ml):			Ti
	Total weight of leached impurity (µg):			
V	Measured concentration (µg/ml):			V
100	Total weight of leached impurity (µg):			

Water rinse	Include if > 10% of 2nd leach
W17092110	
40.0	
17665-015	
1.03E-04	
1.03E-05	
4.12E-09	N
4.17E-10	THE RESERVE OF THE PARTY OF THE
1.05E-05	
1.06E-06	
100	

FCM checked the data against the Official Results of Analyses for RMAL17665 on 2/5/2018.

Fued C. Montgomey 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-01
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1_DRF21R2.xls

2.046E-03
1.27E-05
36.0677
17627
109
3.94E-04
3.94E-06

Post-bum leach solution ID: B17101706			First Leach	Second Leach	Total
Radiochemical laboratory analysis number: 17763-021 17763-026 Measured uranium concentration (µg/ml): 9.11E-03 5.76E-03 Uncertainty in uranium concentration (µg/ml): 9.11E-03 5.76E-04 Weight uranium leached (q): 9.30E-07 5.30E-07 1.47E-06 Uncertainty in weight uranium leached (q): 9.40E-08 5.31E-08 1.08E-07 Equivalent number of leached kemels: 2.36E-03 1.34E-03 3.73E-03 Uncertainty in equivalent number of leached kemels: 2.40E-04 1.36E-04 2.77E-04 Measured concentration of impurity in sample (µg/ml): Fe Weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected we		Post-burn leach solution ID:	B17101701	B17101706	
Measured unanium concentration (µg/ml): 9.11E-03 5.76E-03			103.0	92.0	
Measured unanium concentration (µg/ml): 9.11E-03 5.76E-03	1			Section States	
Uncertainty in uranium concentration (µg/mi): 9.11E-04 5.76E-04 Weight uranium leached (g): 9.38E-07 5.30E-07 1.47E-06 Uncertainty in weight uranium leached (g): 9.40E-08 5.31E-08 1.09E-07 Equivalent number of leached kemels: 2.38E-03 1.34E-03 3.73E-03 Uncertainty in equivalent number of leached kemels: 2.40E-04 1.36E-04 2.77E-04 Measured concentration of impurity in sample (µg/mi): 2.40E-04 1.36E-04 2.77E-04 Measured concentration of impurity in sample (µg/mi): Fe Weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Measured concentration of impurity in sample (µg): Maximum corrected weight of impurity in sample (µg): Maximum corrected			17763-021	17763-026	
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FCM checked the data against the Official Results of Analyses for RMAL17763 on 2/5/2018.

Fred C. Montgomey 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-02
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2,xls

Average weight per particle, mean value (g):	
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	
Approximate number of particles in clutch:	
Uncertainty in number of particles:	109
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total				
	Post-burn leach solution ID:	B17101702	B17101707					
	Total volume of leach solution (ml):	104.0	91.0					
(4)								
	Radiochemical laboratory analysis number:	17763-027						
	Measured uranium concentration (µg/ml):	17763-022 9.79E-03	1,54E-03					
	Uncertainty in uranium concentration (µg/ml):	9.79E-04	1.54E-04					
	Weight uranium leached (g):	1.02E-06	1.40E-07	1.16E-06				
	Uncertainty in weight uranium leached (g):	1.02E-07	1.40E-08	1.03E-07				
	Equivalent number of leached kernels:	2.58E-03	3.56E-04	2.94E-03				
Uncertainty in equivalent number of leached kernels: 2,36E-04 3,58E-05								
		EIGGE GT	SISSE OS	2.63E-04				
	Measured concentration of impurity in sample (µg/ml):			Fe				
	Uncorrected weight of impurity in sample (µg):							
Fe	Weight of impurity in blank (µg):			4 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1				
	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Cr				
	Uncorrected weight of impurity in sample (µg):							
Cr	Weight of impurity in blank (µg):			The second second				
	Minimum corrected weight of impurity in sample (µg):	A 10 10 10 10 10 10 10 10 10 10 10 10 10						
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Mn				
	Uncorrected weight of impurity in sample (µg):			Pan				
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	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (µg):							
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	Maximum corrected weight of impurity in sample (µg):							
_	Measured concentration of impurity in sample (µg/ml):			Ni				
	Uncorrected weight of impurity in sample (µg):			- 10				
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	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Ca				
	Uncorrected weight of impurity in sample (µg):			Cu				
Ca	Weight of impurity in sample (µg):							
-	Minimum corrected weight of impurity in sample (µg):			-				
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Al				
	Uncorrected weight of impurity in sample (µg):	THE RESERVE OF	The second second	A				
AI	Weight of impurity in blank (µg):			Statement of the				
	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Ti				
Ti	Uncorrected weight of impurity in sample (µg):							
	Weight of impurity in blank (µg):			CONTRACTOR OF THE PARTY OF THE				
	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			V				
120	Uncorrected weight of impurity in sample (µg):			V				
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	Minimum corrected weight of impurity in sample (µg):			THE RESERVE				
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	Maximum corrected weight of impurity in sample (µg):							

	Water rinse	Include if > 10% of 2nd leach
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FCM checked the data against the Official Results of Analyses for RMAL17763 on 2/5/2018.

Feed C. Montgomey 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-03
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2,xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	36.0677
Approximate number of particles in clutch:	17627
Uncertainty in number of particles:	109
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17101703	B17101708	Total
-	Total volume of leach solution (ml):	104.0	106.0	
No. of Concession, Name of Street, or other Designation, or other	Total Young of Total Office (MI)	104.0	100.0	
Dell'	Radiochemical laboratory analysis number:	17763-023	17763-028	
	Measured uranium concentration (µg/ml):	1.14E-02	2.05E-03	
	Uncertainty in uranium concentration (µg/ml):	1.14E-03	2.05E-04	
	Weight uranium leached (g):	1.19E-06	2.17E-07	1.40E-06
	Uncertainty in weight uranium leached (g):	1.19E-07	2.18E-08	1,21E-07
	Equivalent number of leached kernels:	3.01E-03	5.52E-04	3.56E-03
THE WA	Uncertainty in equivalent number of leached kernels:	3.03E-04	5.55E-05	3.09E-04
			THE RESERVE	DIOJE OT
	Measured concentration of impurity in sample (µg/ml):			Fe
1	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			THE RESERVE
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
-	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):	FILE BARRIES		THE PARTY OF THE P
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
100	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
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	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):		THE RESERVE OF THE PERSON NAMED IN	
Co	Weight of impurity in blank (µg):			THE RESERVE OF
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (µg):			A
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):		THE RESERVE	
4.7	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
The same	Measured concentration of impurity in sample (µg/ml):			Al
CO	Uncorrected weight of impurity in sample (µg):			
AI	Weight of impurity in blank (µg):			100000000000000000000000000000000000000
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
167	Measured concentration of impurity in sample (µg/ml):			Ti
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4	Minimum corrected weight of impurity in sample (µg):			
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16-1	Measured concentration of impurity in sample (µg/ml):			V
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FCM	checked	the d	lata agains	t the	Official	Results of	Analyses for	or RMAL17763 o	n 2/5/2018.	

Fred C. Mintgrinery

2-8-2018

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-04
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2.xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	36.0677
Approximate number of particles in clutch:	17627
Uncertainty in number of particles:	109
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total				
	Post-burn leach solution ID:	B17101704	B17101709					
	Total volume of leach solution (ml):	104.0	99.0					
Total State of the								
	Radiochemical laboratory analysis number:	17763-024	17763-029					
	Measured uranium concentration (µg/ml):	4.66E+00	1.38E-02					
	Uncertainty in uranium concentration (µg/ml):	4.66E-01	1.38E-03					
	Weight uranium leached (g):	4.85E-04	1.37E-06	4.86E-04				
	Uncertainty in weight uranium leached (g):	4.86E-05	1.37E-07	4.86E-05				
	Equivalent number of leached kernels:	1.23E+00	3.47E-03	1.23E+00				
	Uncertainty in equivalent number of leached kernels:	1.24E-01	3.49E-04	1.24E-01				
Section 1								
	Measured concentration of impurity in sample (µg/ml):			Fe				
	Uncorrected weight of impurity in sample (µg):							
Fe	Weight of impurity in blank (µg):							
	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (μg):							
	Measured concentration of impurity in sample (µg/ml):			Cr				
	Uncorrected weight of impurity in sample (µg):							
Cr	Weight of impurity in blank (µg):			WHI SHOWS A				
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_ 18	Maximum corrected weight of impurity in sample (µg):	A STATE OF THE STA						
	Measured concentration of impurity in sample (µg/ml):			Mn				
	Uncorrected weight of impurity in sample (µg):							
Mn	Weight of impurity in blank (µg):							
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	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Co				
	Uncorrected weight of impurity in sample (µg):							
Co	Weight of impurity in blank (µg):							
	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (μg):							
	Measured concentration of impurity in sample (μg/ml):			Ni				
	Uncorrected weight of impurity in sample (μg):							
Ni	Weight of impurity in blank (μg):							
	Minimum corrected weight of impurity in sample (μg):							
	Maximum corrected weight of impurity in sample (µg):							
	Measured concentration of impurity in sample (µg/ml):			Ca				
2 15	Uncorrected weight of impurity in sample (μg):							
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	Measured concentration of impurity in sample (µg/ml):			Al				
	Uncorrected weight of impurity in sample (μg):							
AI	Weight of impurity in blank (μg):							
	Minimum corrected weight of impurity in sample (µg):							
	Maximum corrected weight of impurity in sample (μg):							
	Measured concentration of impurity in sample (µg/ml):			Ti				
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Ti	Weight of impurity in blank (μg):							
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FCM checked the data against the Official Results of Analyses for RMAL17763 on 2/5/2018.

Fred C. Montgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	Post-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 1 DRF21R2.xls

Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3,94E-06

		First Leach	Second Leach	Total
Post-burn leach solution ID:		B17101705	B17101710	
	Total volume of leach solution (ml):	70.0	98.0	
		10 2 20 10 10		
	Radiochemical laboratory analysis number:	17763-025	17763-030	
	Measured uranium concentration (μg/ml):	2.22E-04	2.54E-04	
	Uncertainty in uranium concentration (µg/ml):	2.22E-05	2.54E-05	
	Weight uranium leached (g):	1.55E-08	2.49E-08	4.04E-08
	Uncertainty in weight uranium leached (g):	1.56E-09	2.49E-09	2.94E-09
	Equivalent number of leached kernels:	3.94E-05	6.32E-05	1.03E-04
	Uncertainty in equivalent number of leached kernels:	3.98E-06	6.36E-06	7.54E-06
		EL THE BUTTON		
Fe	Measured concentration (μg/ml):			Fe
	Total weight of leached impurity (µg):			
Cr	Measured concentration (μg/ml):			Cr
-	Total weight of leached impurity (µg):			
Mn	Measured concentration (μg/ml):			Mn
	Total weight of leached impurity (µg):			
Co	Measured concentration (μg/ml):			Co
	Total weight of leached impurity (µg):			
Ni	Measured concentration (µg/ml):			Ni
	Total weight of leached impurity (µg):			
Ca	Measured concentration (μg/ml):			Ca
	Total weight of leached impurity (µg):			
AI	Measured concentration (μg/ml):			Al
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Measured concentration (μg/ml):				Ti
	Total weight of leached impurity (µg):			
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	Total weight of leached impurity (µg):			

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FCM checked the data against the Official Results of Analyses for RMAL17763 on 2/5/2018.

Fred C. Mentgomery 2-8-2018

Operator

Operator

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-05
DRF filename:	\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	40.6215
Approximate number of particles in clutch:	19852
Uncertainty in number of particles:	123
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	T T T T T T T T T T T T T T T T T T T	First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17100901	L17101001	
	Total volume of leach solution (ml):	93.0	111.0	
1000	Total Folding of Teach Soldion (III)	93.0	111.0	
	Radiochemical laboratory analysis number:	17763-001	17763-006	
-	Measured uranium concentration (µg/ml):	1.12E+01	1.59E+00	
	Uncertainty in uranium concentration (µg/ml):	1.12E+00	1.59E-01	
	Weight uranium leached (g):	1.04E-03	1.76E-04	1.22E-03
	Uncertainty in weight uranium leached (g):	1.04E-04	1.77E-05	1.06E-04
	Equivalent number of leached kernels:	2.64E+00	4.48E-01	3.09E+00
	Uncertainty in equivalent number of leached kernels:	2.66E-01	4.51E-02	2.71E-01
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-	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			- 10
Fe	Weight of impurity in blank (µg):		PERSONAL PROPERTY.	AND DESCRIPTION OF
-	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
_	Measured concentration of impurity in sample (µg/ml):			Cr
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Cr	Weight of impurity in blank (µg):			The same of the sa
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	Measured concentration of impurity in sample (µg/ml):			Mn
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	Measured concentration of impurity in sample (µg/ml):			Co
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	Minimum corrected weight of impurity in sample (μg):			
-11	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (μg):			
Ni	Weight of impurity in blank (μg):			The same of
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):	100		
	Measured concentration of impurity in sample (µg/ml):			Al
300	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (µg):			and the second
	Minimum corrected weight of impurity in sample (µg):			1 - 1 - 1 - 1
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (μg):			
- 9	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):		CAMPAGE AND	
V	Weight of impurity in blank (μg):	FRANKS -	The state of the s	
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
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Comments

FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Fied c. Muntgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-06
DRF filename:	\\mc-agr\AGR\ eachBurnl each\11034-Group 2 DRF21R2 vis

Average weight per particle, mean value (g):	2.05E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	38.3092
Approximate number of particles in clutch:	18722
Uncertainty in number of particles:	116
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17100902	L17101002	Contract Contract
Total volume of leach solution (ml):		83.0	107.0	
		0310	107.0	
	Radiochemical laboratory analysis number:	17763-002	17763-007	
Measured uranium concentration (µg/ml):		3.76E-01	3.50E-01	
	Uncertainty in uranium concentration (µg/ml):	3.76E-02	3.50E-02	
	Weight uranium leached (g):	3.12E-05	3.75E-05	6.87E-05
	Uncertainty in weight uranium leached (g):	3.13E-06	3.75E-06	4.89E-06
	Equivalent number of leached kernels:	7.92E-02	9.51E-02	1.74E-01
	Uncertainty in equivalent number of leached kernels:	7.98E-03	9.57E-03	1.25E-02
200		District to the last	DE THE COME	
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (μg):		AND THE REAL PROPERTY.	
Fe	Weight of impurity in blank (μg):			1000000
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
_	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (μg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
Ni	Uncorrected weight of impurity in sample (μg):			
INI	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
Ca	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
_	Measured concentration of impurity in sample (µg/ml):			41
	Uncorrected weight of impurity in sample (µg):			Al
Al	Weight of impurity in blank (µg):			SECRETARIA DE LA COLONIA DE LA
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (ug):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			

Material	Technical Sec. 4007 - CO. 411
Water rinse	Include if > 10% of 2nd leach
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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Field C. Montgomery 2-8-2018

Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-07
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	2.05E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	36.2038
Approximate number of particles in clutch:	17693
Uncertainty in number of particles:	110
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	Ī	First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17100903	L17101003	SECURIOR SECURIOR
	Total volume of leach solution (ml):	90.0	114.0	
200		ME TO STATE OF THE	THE RESERVE TO SERVE THE PARTY.	
	Radiochemical laboratory analysis number:	17763-003	17763-008	
	Measured uranium concentration (µg/ml):	4.03E-01	6.71E-02	
	Uncertainty in uranium concentration (µg/ml):	4.03E-02	6.71E-03	
	Weight uranium leached (g):	3.63E-05	7.65E-06	4.39E-05
	Uncertainty in weight uranium leached (g):	3.64E-06	7.66E-07	3.72E-06
	Equivalent number of leached kernels:	9.21E-02	1.94E-02	1.11E-01
	Uncertainty in equivalent number of leached kernels:	9.28E-03	1.95E-03	9.50E-03
1000		C W TO STATE		No. of Concession, Name of Street, or other Designation, or other
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
- 11	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):		THE RESERVE OF THE PERSON NAMED IN	
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):		CONTRACT TO THE PARTY OF THE PA	
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (μg):			
Ni	Weight of impurity in blank (μg):		RATE OF STREET	
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (μg):			
Ca	Weight of impurity in blank (µg):			THE PARTY OF
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (μg):			
Al	Weight of impurity in blank (μg):	Branch and		
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
No. of Contract	Uncorrected weight of impurity in sample (μg):			
Ti	Weight of impurity in blank (μg):		2172	
- 4	Minimum corrected weight of impurity in sample (µg):	No. of Contrast		
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (μg):			THE RESERVE OF THE PARTY OF
	Minimum corrected weight of impurity in sample (μg):			
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Water rinse	Include if > 10% of 2nd leach
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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Fixed C. Mintgomery 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-08
DRF filename:	\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	2.05E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	38.8042
Approximate number of particles in clutch:	18964
Uncertainty in number of particles:	117
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17100904	L17101004	
	Total volume of leach solution (ml):	92.0	109.0	
1150		THE RESERVE		
	Radiochemical laboratory analysis number:	17763-004	17763-009	
	Measured uranium concentration (µg/ml):	1.51E+01	2.16E-01	
	Uncertainty in uranium concentration (µg/ml):	1.51E-01	2.16E-02	
	Weight uranium leached (g):	1.39E-03	2.35E-05	1.41E-03
	Uncertainty in weight uranium leached (g):	1.70E-05	2.36E-06	1.72E-05
	Equivalent number of leached kernels:	3.53E+00	5.98E-02	3.59E+00
	Uncertainty in equivalent number of leached kernels:	5.57E-02	6.02E-03	5.64E-02
1			OTOLL OF	JIOIL OZ
5 5 5	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			16
Fe	Weight of impurity in blank (µg):		The state of the s	CONTRACTOR
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml);			Cr
	Uncorrected weight of impurity in sample (µg):			u
Cr	Weight of impurity in blank (µg):			NAME OF TAXABLE PARTY.
-	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ma
	Uncorrected weight of impurity in sample (µg):			Mn
Mn	Weight of impurity in blank (µq):			Care House Control
	Minimum corrected weight of impurity in sample (µq):			
	Maximum corrected weight of impurity in sample (µg):			
-	Measured concentration of impurity in sample (µg/ml):			
	Uncorrected weight of impurity in sample (µg):			Co
Co				
CO	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
Ni	Uncorrected weight of impurity in sample (μg):			
141	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
Ca	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Al
AI	Uncorrected weight of impurity in sample (µg):			
AI	Weight of impurity in blank (µg):			The Hot
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			
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	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
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	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			

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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Fied C. Montgomery 2-8-2018

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	Pre-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight uranium per particle, mean value (g):	3.94E-04	
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06	

	-		Water-Control of the Control of the	
		First Leach	Second Leach	Total
	Pre-burn leach solution ID:	L17100905	L17101005	
	Total volume of leach solution (ml):	75.0	70.0	
F-10			THE RESIDENCE	
	Radiochemical laboratory analysis number:	17763-005	17763-010	
	Measured uranium concentration (µg/ml):	2.65E-04	1.39E-03	
14.7	Uncertainty in uranium concentration (µg/ml):	2.65E-05	1.39E-04	
	Weight uranium leached (g):	1.99E-08	9.73E-08	1.17E-07
	Uncertainty in weight uranium leached (g):	1.99E-09	9.77E-09	9.97E-09
	Equivalent number of leached kernels:	5.04E-05	2.47E-04	2.97E-04
	Uncertainty in equivalent number of leached kernels:	5.09E-06	2.49E-05	2.55E-05
1395				ALCOHOL STATE
Fe	Measured concentration (µg/ml):			Fe
re	Total weight of leached impurity (µg):			
Cr	Measured concentration (μg/ml):			Cr
Cr	Total weight of leached impurity (µg):			
Mn	Measured concentration (μg/ml):			Mn
MIII	Total weight of leached impurity (µg):			
Co	Measured concentration (µg/ml):			Co
CO	Total weight of leached impurity (µg):			
Ni	Measured concentration (µg/ml):			Ni
141	Total weight of leached impurity (µg):			
Ca	Measured concentration (µg/ml):			Ca
Ca	Total weight of leached impurity (µg):			44
AI	Measured concentration (μg/ml):	15 1 10 10		Al
Al	Total weight of leached impurity (µg):			
Ti	Measured concentration (μg/ml):			Ti
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v	Measured concentration (μg/ml):			V
v	Total weight of leached impurity (µg):			

Water rinse	Include if >	10%	of 2n	d leach
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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Field c. Montgomey 2-8-2018

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-05
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	
Approximate number of particles in clutch:	
Uncertainty in number of particles:	123
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

	T .	First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17101901	B17102001	Total
	Total volume of leach solution (ml):	60.0	67.0	
1000	Total Volume of leach solution (IIII). 00.0 07.0			
	Radiochemical laboratory analysis number:	17763-011	17763-016	
	Measured uranium concentration (µg/ml):	9.62E-01	1,23E-02	
	Uncertainty in uranium concentration (µg/ml):	9.62E-02	1.23E-03	
	Weight uranium leached (g):	5.77E-05	8.24E-07	5.85E-05
	Uncertainty in weight uranium leached (g):	5.81E-06	8.28E-08	5.81E-06
	Equivalent number of leached kernels:	1.46E-01	2.09E-03	1.49E-01
	Uncertainty in equivalent number of leached kernels:	1.48E-02	2.11E-04	1.48E-02
3723				THE PERSON NAMED IN
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
-	Measured concentration of impurity in sample (μg/ml):			Cr
	Uncorrected weight of impurity in sample (μg):			
Cr	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (μg):			
Mn	Weight of impurity in blank (μg):			
-	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
- 5	Measured concentration of impurity in sample (µg/ml):			Co
Co	Uncorrected weight of impurity in sample (µg):			and the second second
CO	Weight of impurity in blank (µg): Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			INI
Ni	Weight of impurity in sample (µg):			
	Minimum corrected weight of impurity in sample (µg):			The second second
	Maximum corrected weight of impurity in sample (µg):			
7-51	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (µg):			- Cu
Ca	Weight of impurity in blank (µg):			STATE OF THE PARTY OF
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (µg):			
Al	Weight of impurity in blank (µg):		ACCOUNTS TO	
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
= 7	Measured concentration of impurity in sample (μg/ml):			Ti
-	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):		La rivour mail	
	Maximum corrected weight of impurity in sample (µg):	ALC: Y-Y-Y-OB		
	Measured concentration of impurity in sample (µg/ml):			V
474	Uncorrected weight of impurity in sample (μg):			
V	Weight of impurity in blank (µg):			THE PROPERTY AND
	Minimum corrected weight of impurity in sample (µg):			
-	Maximum corrected weight of impurity in sample (μg):			

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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Lud C. Montgomen 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-06
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	40.6215
Approximate number of particles in clutch:	
Uncertainty in number of particles:	123
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94F-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17101902	B17102002	SE STANDARD
	Total volume of leach solution (ml):	58.0	66.0	
		THE RESERVE TO SERVE		
	Radiochemical laboratory analysis number:	17763-012	17763-017	
	Measured uranium concentration (µg/ml):	4.49E-02	5.96E-01	
	Uncertainty in uranium concentration (µg/ml):	4.49E-03	5.96E-02	
	Weight uranium leached (g):	2.60E-06	3.93E-05	4.19E-05
	Uncertainty in weight uranium leached (g):	2.62E-07	3.95E-06	3.96E-06
	Equivalent number of leached kernels:	6.61E-03	9.98E-02	1.06E-01
	Uncertainty in equivalent number of leached kernels:	6.68E-04	1.01E-02	1.01E-02
1965			ATTENDED TO SERVICE	STATE OF THE PARTY OF
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			Market State
Fe	Weight of impurity in blank (μg):			STATE OF THE STATE
	Minimum corrected weight of impurity in sample (µg):		The state of the state of	
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			
Cr	Weight of impurity in blank (µg):			
-	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):		- 14 AL	Mn
100	Uncorrected weight of impurity in sample (μg):			
Mn	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
1 5	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (µg):			
Ni	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
200	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
F = 14	Measured concentration of impurity in sample (µg/ml):			Al
AI	Uncorrected weight of impurity in sample (μg):			
AI	Weight of impurity in blank (μg):			Target Trail
1	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
Ti	Uncorrected weight of impurity in sample (µg):			
- 11	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			V
v	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			

Water rinse	Include if > 10% of 2nd leach
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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Fued C. Montgo mly 2-8-2018

Operator Date

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-07
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	40.6215
Approximate number of particles in clutch:	19852
Uncertainty in number of particles:	123
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (q):	3.94E-06

		First Leach	Second Leach	Total
Post-burn leach solution ID:		B17101903	B17102003	
Total volume of leach solution (ml):		56.0	69.0	
			A STATE OF THE PARTY OF THE PAR	
	Radiochemical laboratory analysis number:	17763-013	17763-018	
	Measured uranium concentration (μg/ml):	4.31E-02	1.58E-03	
Uncertainty in uranium concentration (µg/ml):		4.31E-03	1.58E-04	TA SELLED
	Weight uranium leached (g):	2.41E-06	1.09E-07	2.52E-06
	Uncertainty in weight uranium leached (g):	2.43E-07	1.10E-08	2.43E-07
	Equivalent number of leached kernels:	6.13E-03	2.77E-04	6.40E-03
	Uncertainty in equivalent number of leached kernels:	6.20E-04	2.79E-05	6.21E-04
			A STATE OF THE PARTY OF THE PAR	
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):			Fe
Fe	Weight of impurity in blank (µg):			
1.0	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			G
Cr	Weight of impurity in blank (µg):			NAME OF TAXABLE PARTY.
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Mn
	Uncorrected weight of impurity in sample (µg):			
Mn	Weight of impurity in blank (µg):			A 100 A
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):		House The Bridge	
T - [-]	Measured concentration of impurity in sample (µg/ml):			Co
	Uncorrected weight of impurity in sample (µg):			
Co	Weight of impurity in blank (µg):	THE BUTTON		
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
	Uncorrected weight of impurity in sample (μg):			
Ni	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
Ca	Uncorrected weight of impurity in sample (µg):			
Ca	Weight of impurity in blank (μg):	MARKET AND DE		
-2	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml): Uncorrected weight of impurity in sample (µg):			Al
AI	Weight of impurity in sample (µg):			Contract Contract
Α.	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
	Uncorrected weight of impurity in sample (µg):			-
Ti	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (µg):	Market Market		
	Maximum corrected weight of impurity in sample (µg):			
1111	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (μg):			
EXT	Minimum corrected weight of impurity in sample (μg):			STATE OF
	Maximum corrected weight of impurity in sample (μg):			
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Water dags	To 1 to 16 x 1000 of 2 d local
Water rinse	Include if > 10% of 2nd leach
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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Fred C. Montgomery 2-8-2018

Operator Date

Donne donne	ACD CHAD DAM 21 Days 2
	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	11034-08
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2 DRF21R2.xls

Average weight per particle, mean value (g):	2.046E-03
Average weight per particle, uncertainty in mean (g):	1.27E-05
Weight of particle clutch (g):	40.6215
Approximate number of particles in clutch:	19852
Uncertainty in number of particles:	123
Average weight uranium per particle, mean value (g):	3.94E-04
Average weight uranium per particle, uncertainty in mean (g):	3.94E-06

		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17101904	B17102004	
	Total volume of leach solution (ml):	55.0	73.0	
30		33.0	75.0	
_	Radiochemical laboratory analysis number:	17763-014	17763-019	
Measured uranium concentration (µg/ml):		9.90E-02	2.23E-03	
Uncertainty in uranium concentration (µg/ml):		9.90E-03	2.23E-04	
	Weight uranium leached (g):	5.45E-06	1.63E-07	5.61E-06
	Uncertainty in weight uranium leached (g):	5.48E-07	1.63E-08	5.49E-07
	Equivalent number of leached kernels:	1.38E-02	4.13E-04	1.42E-02
	Uncertainty in equivalent number of leached kernels:	1.40E-03	4.17E-05	1.40E-03
R. Carlon		TI TOL OS	411/2 03	1.402 03
	Measured concentration of impurity in sample (µg/ml):			Fe
	Uncorrected weight of impurity in sample (µg):			
Fe	Weight of impurity in blank (µg):			Del State of the
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Cr
	Uncorrected weight of impurity in sample (µg):			<u> </u>
Cr	Weight of impurity in sample (µg):			Maria Maria Maria
٠.	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			1/-
100	Uncorrected weight of impurity in sample (µg):			Mn
Mn				
1-111	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):		T. S. S. A.	
24	Measured concentration of impurity in sample (µg/ml):			Co
Co	Uncorrected weight of impurity in sample (μg):			
Co	Weight of impurity in blank (μg):			S. Townson St. St.
1	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ni
Ni	Uncorrected weight of impurity in sample (µg):			
MI	Weight of impurity in blank (µg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
	Measured concentration of impurity in sample (µg/ml):			Ca
	Uncorrected weight of impurity in sample (μg):			
Ca	Weight of impurity in blank (μg):			3 - 2
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):	Mark Market	the same of	
	Measured concentration of impurity in sample (µg/ml):			Al
	Uncorrected weight of impurity in sample (μg):			
Al	Weight of impurity in blank (μg):			
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (μg):			
	Measured concentration of impurity in sample (µg/ml):			Ti
_	Uncorrected weight of impurity in sample (µg):			
Ti	Weight of impurity in blank (µg):	THE REAL PROPERTY.		
	Minimum corrected weight of impurity in sample (μg):			
	Maximum corrected weight of impurity in sample (µg):			
1 54	Measured concentration of impurity in sample (µg/ml):			V
	Uncorrected weight of impurity in sample (µg):			
V	Weight of impurity in blank (μg):			The Later
	Minimum corrected weight of impurity in sample (µg):			
	Maximum corrected weight of impurity in sample (µg):			

Water rinse	Include if > 10% of 2nd leach
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	CONTRACTOR ASSESSMENT OF THE PARTY OF THE PA

FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Field C. Montgomery 2-8-2018

Operator

Operator

Procedure:	AGR-CHAR-DAM-21 Rev. 2
Operator:	Montgomery/Dyer/Helmreich
Particle lot ID:	BWXT J52R-16-11034
Particle lot description:	AGR-5/6/7 over-coated particles, 40% packing fraction
Particle clutch ID:	Post-burn leach blank
DRF filename:	\\mc-agr\AGR\LeachBurnLeach\11034-Group 2_DRF21R2.xls

ı,			
	Average weight uranium per particle, mean value (g):	3.94E-04	
ı	Average weight uranium per particle, uncertainty in mean (g):	3.94F-06	- 11

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		First Leach	Second Leach	Total
	Post-burn leach solution ID:	B17101905	B17102005	
	Total volume of leach solution (ml):	39.0	49.0	
	- Process of the Section of the Sect		AZSS LIBYTY	
	Radiochemical laboratory analysis number:	17763-015	17763-020	
	Measured uranium concentration (μg/ml):	1.10E-04	6.94E-04	
	Uncertainty in uranium concentration (µg/ml):	1.10E-05	6.94E-05	
	Weight uranium leached (g):	4.29E-09	3.40E-08	3.83E-08
	Uncertainty in weight uranium leached (g):	4.35E-10	3.43E-09	3.46E-09
	Equivalent number of leached kernels:	1.09E-05	8.63E-05	9.72E-05
	Uncertainty in equivalent number of leached kernels:	1.11E-06	8.75E-06	8.83E-06
7533			THE RESERVE	1 1100
Fe	Measured concentration (μg/ml):			Fe
re	Total weight of leached impurity (µg):			
Cr	Measured concentration (μg/ml):			Cr
Cr	Total weight of leached impurity (µg):	THE LOCAL DESIGNATION OF THE PERSON OF THE P		74.3.245
Mn	Measured concentration (μg/ml):			Mn
1.411	Total weight of leached impurity (µg):			
Co	Measured concentration (μg/ml):			Co
	Total weight of leached impurity (µg):			
Ni	Measured concentration (μg/ml):			Ni
	Total weight of leached impurity (µg):	Mary See East 1		
Ca	Measured concentration (μg/ml):			Ca
Cu	Total weight of leached impurity (µg):			
AI	Measured concentration (μg/ml):			Al
	Total weight of leached impurity (µg):			
Ti	Measured concentration (μg/ml):			Ti
••	Total weight of leached impurity (µg):	THE PROPERTY		
v	Measured concentration (μg/ml):			V
•	Total weight of leached impurity (µg):			7

Water rinse	Include if > 10% of 2nd leach
Water miss	Include II > 10.5 Or End readil
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FCM checked the data against the Official Results of Analyses report for RMAL17763 on 2/5/2017.

Ful C. Montgomery 2-8-2018